

## Appendix E

### Red Flag and Hazardous Materials

Item	Appendix Page
Red Flag Investigation Report	E-1 to E-35



## INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue  
Room N758-ES  
Indianapolis, Indiana 46204

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**Eric Holcomb, Governor**  
**Joe McGuinness, Commissioner**

Date: December 23, 2021

To: Site Assessment & Management  
Environmental Policy Office - Environmental Services Division (ESD)  
Indiana Department of Transportation  
100 N Senate Avenue, Room N758-ES  
Indianapolis, IN 46204

From: Kaitlyn Etzkorn  
CHA Consulting, Inc.  
300 South Meridian Street  
Indianapolis, IN  
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Re: RED FLAG INVESTIGATION  
DES 1900157, State Project  
Access Control  
US 36 (Pendleton Pike), from I-465 to 65<sup>th</sup> Street  
Marion County, Indiana

### PROJECT DESCRIPTION

Brief Description of Project: The proposed project is located on US 36/SR 67 (Pendleton Pike) from I-465 to 65<sup>th</sup> Street in Marion County, Indiana. The existing roadway consists of travel lanes varying from 11 to 12 foot lanes with curb and gutter, and a Two-Way Left Turn Lane in the center of the road that varies from 12 to 15 foot. There is no existing paved or usable shoulder. A raised concrete median will replace the Two-Way Left Turn Lane. The existing traffic signal dual-diagonals will be replaced with box-spans to improve sight distance. Sidewalk will be installed from Mitthoeffer Road to 56<sup>th</sup> Street to improve pedestrian connectivity along the corridor. Traffic Signal Poles are expected to be installed at the US 36 and Franklin Street, US 36 and Mitthoeffer Street and US 36 and 56<sup>th</sup> Street intersections. Drainage work is anticipated at the US 36 and Geneva Avenue, US 36 and 52<sup>nd</sup> Street, US 36 and Wheel Estate Drive, US 36 and 56<sup>th</sup> Street, US 36 and Teresa Lane, and US 36 and Thunderbird Road intersections, which consists of new curb and gutters that connect to the existing storm sewer drainage system.

Bridge and/or Culvert Project: Yes ☐ No ☒ Structure # \_\_\_\_\_

If this is a bridge project, is the bridge Historical? Yes ☐ No ☐ , Select ☐ Non-Select ☐

(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations Section of the report).

Proposed right of way: Temporary ☐ # Acres \_\_\_\_\_ Permanent ☒ # Acres 0.83, Not Applicable ☐

Type and proposed depth of excavation: Excavation for medians, curbs and sidewalks from 6 -14 inches deep. Excavation of 24 inches for new pavement. Excavation for traffic signal poles up to 12 feet deep. Excavation for drainage work up to 4 feet deep.

Maintenance of traffic: A partial closure will require traffic be limited to two lanes in each direction throughout construction.

Work in waterway: Yes ☐ No ☒ Below ordinary high water mark: Yes ☐ No ☐

State Project: ☒ LPA: ☐

Any other factors influencing recommendations: N/A

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## INFRASTRUCTURE TABLE AND SUMMARY

<b>Infrastructure</b> Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Religious Facilities	<b>9*</b>	Recreational Facilities	<b>7</b>
Airports <sup>1</sup>	<b>1</b>	Pipelines	<b>4</b>
Cemeteries	<b>4</b>	Railroads	<b>2</b>
Hospitals	<b>N/A</b>	Trails	<b>5</b>
Schools	<b>3</b>	Managed Lands	<b>5</b>

<sup>1</sup>In order to complete the required airport review, a review of public-use airports within 3.8 miles (20,000 feet) is required.

### Explanation:

*Religious Facilities:* Six (6) mapped and three (3) unmapped\* religious facilities are located within the 0.5 mile search radius. Three (3) religious facilities, two (2) unmapped\* and one (1) mapped, are located adjacent to or near the project area.

- Lawrence Full Gospel Tabernacle, 8165 East 45th Street, Lawrence, is located 0.06 mile north of the US 36 and Mowery Street intersection. Coordination with the facility will occur.
- \*Discover Church, 11605 Pendleton Pike #3908, Indianapolis, is located 0.04 mile northeast of the intersection of US 36 and Newport Drive adjacent to the south side of US 36. Coordination with the facility will occur.
- \*Full Gospel Church of the Rock, 8669 Pendleton Pike #6603, Indianapolis, is located 0.02 mile southwest of the intersection of US 36 and Geneva Avenue adjacent to the south side of US 36. Coordination with the facility will occur.

*Recreational Facilities:* Seven (7) recreational facilities are located within the 0.5 mile search radius. The nearest facility, Veteran's Memorial Park, is located adjacent to the south side of US 36, 0.16 mile northeast of the US 36 and Oaklandon Road intersection. Coordination with Lawrence Parks and Recreation will occur.

*Airports:* One (1) public airport, Indianapolis Regional Airport, is located 3.4 miles southeast of the eastern terminus of the project area. Coordination with INDOT Aviation will occur.

*Pipelines:* Four (4) pipeline segments are located within the 0.5 mile search radius. One pipeline segment, Citizens Gas & Coke Utility, crosses east to west under the I-465/US 36 interchange through the project area. Coordination with INDOT Utilities and Railroads should occur.

*Cemeteries:* Four (4) cemeteries are located within the 0.5 mile search radius. Hoss Cemetery is located adjacent to the project area. The cemetery is located 0.22 mile southwest of the US 36 and Sunnyside Road intersection. Coordination with INDOT Cultural Resources will occur.

*Railroads:* Two (2) railroad segments are located within the 0.5 mile search radius. Both railroad segments run parallel of the project area 0.25 mile north. No impact is expected.

*Trails:* Five (5) trail segments are located within the 0.5 mile search radius. One (1) trail segment is located adjacent to the project area, spanning from 0.27 mile northwest of the US 36 and Sunnyside Road intersection to 0.18 mile northeast of the US 36 and Oaklandon intersection. Coordination with the Lawrence Parks and Recreation Department will occur.

**Schools:** Three (3) schools are located within the 0.5 mile search radius. The nearest school, Monument Lighthouse Charter School, is located 0.41 mile south of the US 36 and Franklin Road intersection. No impact is expected.

**Managed Lands:** Five (5) Managed Lands are located within the 0.5 mile search radius. The nearest managed land, Veteran's Park, is located adjacent to the project area, 0.16 mile northeast of the US 36 and Oaklandon Road intersection. Coordination with the Lawrence Parks and Recreation Department will occur.

#### **WATER RESOURCES TABLE AND SUMMARY**

<b>Water Resources</b> Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
NWI - Points	<b>1</b>	Canal Routes - Historic	<b>N/A</b>
Karst Springs	<b>N/A</b>	NWI - Wetlands	<b>55</b>
Canal Structures – Historic	<b>N/A</b>	Lakes	<b>12</b>
NPS NRI Listed	<b>N/A</b>	Floodplain - DFIRM	<b>20</b>
NWI-Lines	<b>4</b>	Cave Entrance Density	<b>N/A</b>
IDEM 303d Listed Streams and Lakes (Impaired)	<b>6*</b>	Sinkhole Areas	<b>N/A</b>
Rivers and Streams	<b>24</b>	Sinking-Stream Basins	<b>N/A</b>

Explanation:

#### ***NWI-Points:***

One (1) National Wetland Inventory (NWI) line was identified within the 0.5 mile investigation radius. The NWI point is located within the project area, 0.22 mile northeast of the US 36 and Sunnyside Road intersection. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

#### ***NWI-Lines:***

Four (4) NWI-lines were identified within the 0.5 mile investigation radius. One (1) NWI-line, associated with Indian Creek, is located within the project area, 0.22 mile northeast of the US 36 and Sunnyside Road intersection. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

#### ***IDEM 303d Listed Streams and Lakes (Impaired):***

Six (6), five (5) mapped and one (1) unmapped\*, IDEM 303d listed streams and lakes (impaired) were identified within the 0.5 mile investigation radius.

- Billings Creek\* is located adjacent to the project area, 0.11 mile southwest of the US 36 and 56th Street intersection and is impaired for Impaired Biotic Communities (IBC) and Polychlorinated Biphenyls (PCBs) in fish tissue. Concerning IBCs, Best Management Practices (BMPs) will be used to avoid further degradation to the stream. Exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. No impact is expected; however, workers will be informed. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT Site Assessment & Management (SAM) will occur.
- Mock Creek is located within the project area, 0.04 mile northeast of the US 36 and Pine Hill Drive intersection and is impaired for E coli. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure.

- Indian Creek is located within the project area, 0.22 mile northeast of the US 36 and Sunnyside Road intersection and is impaired for E coli, IBC, and PCBs in fish tissue. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure. Concerning IBC, BMPs will be used to avoid further degradation to the stream. Exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. No impact is expected; however, workers will be informed. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT Site Assessment & Management (SAM) will occur.

#### *Rivers and Streams:*

Twenty-four (24) rivers and streams were identified within the 0.5 mile investigation radius. Three (3) streams, Indian Creek, Billings Creek and Mock Creek, are located within the project area.

- Indian Creek is located 0.22 mile northeast of the US 36 and Sunnyside Road intersection,
- Billings Creek is located 0.11 mile southwest of the US 36 and 56<sup>th</sup> Street intersection
- Mock Creek is located 0.04 mile northeast of the US 36 and Pine Hill Drive intersection.

A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

#### *NWI-Wetlands:*

Fifty-five (55) NWI-wetlands were identified within the 0.5 mile investigation radius. Three (3) wetlands are located within or adjacent to the project area. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

- One (1) wetland is located 0.11 mile southwest of the US 36 and 56<sup>th</sup> Street intersection.
- One (1) wetland is located in the northwest quadrant of the US 36 and Thunderbird Road intersection.
- One (1) wetland is located in the southeast quadrant of the US 36 and Oaklandon Drive intersection.

#### *Lakes:*

Twelve (12) lakes were identified within the 0.5 mile investigation radius. Two (2) lakes were identified adjacent to the project area. The nearest lake is located 0.34 mile northeast of the US 36 and Sunnyside Drive intersection. No impact is expected.

#### *Floodplain-DFIRM:*

Twenty (20) floodplains were identified within the 0.5 mile investigation radius. The project area is located within four (4) floodplain polygons, all associated with Indian Creek. Coordination with INDOT ESD Ecology and Waterway Permitting will occur.

### **MINING AND MINERAL EXPLORATION TABLE AND SUMMARY**

<b>Mining/Mineral Exploration</b>			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Petroleum Wells	<b>7</b>	Mineral Resources	<b>N/A</b>
Mines – Surface	<b>N/A</b>	Mines – Underground	<b>N/A</b>

Explanation:

Petroleum Wells: Seven (7) petroleum wells are located with the 0.5 mile search radius. The nearest petroleum well is located 0.12 mile northeast of the US 36 and Newport Drive intersection. No impact is expected.

#### **HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY**

<b>Hazardous Material Concerns</b>			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Superfund	<b>N/A</b>	Manufactured Gas Plant Sites	<b>N/A</b>
RCRA Generator/ TSD	<b>11*</b>	Open Dump Waste Sites	<b>N/A</b>
RCRA Corrective Action Sites	<b>N/A</b>	Restricted Waste Sites	<b>N/A</b>
State Cleanup Sites	<b>9*</b>	Waste Transfer Stations	<b>3</b>
Septage Waste Sites	<b>N/A</b>	Tire Waste Sites	<b>N/A</b>
Underground Storage Tank (UST) Sites	<b>17</b>	Confined Feeding Operations (CFO)	<b>N/A</b>
Voluntary Remediation Program	<b>3</b>	Brownfields	<b>12</b>
Construction Demolition Waste	<b>N/A</b>	Institutional Controls	<b>29</b>
Solid Waste Landfill	<b>N/A</b>	NPDES Facilities	<b>26</b>
Infectious/Medical Waste Sites	<b>N/A</b>	NPDES Pipe Locations	<b>N/A</b>
Leaking Underground Storage (LUST) Sites	<b>39</b>	Notice of Contamination Sites	<b>1</b>

Unless otherwise noted, site specific details presented in this section were obtained from documents reviewed on the Indiana Department of Environmental Management (IDEM) Virtual File Cabinet (VFC).

#### ***RCRA Generator/TSD:***

Eleven (11) RCRA Generator/TSDs, ten (10) mapped and one (1) unmapped, were identified within the 0.5 mile radius. Seven (7) RCRA Generators/TSDs were located within or near the project area.

- Waddell Power Incorporated (7530 Allen Street; AI 12325) is mapped 0.09 mile north of the US 36 and East 42<sup>nd</sup> Street intersection. According to the Industrial/Hazardous Waste Inspection Report on September 25, 2000, this site was found to be in compliance, no violations were observed. This site is listed as a Conditionally Exempt Small Quantity Generator (CESQG), and was reported not to produce hazardous waste in 2012. No impact expected.
- Lawrence Township Schools (8301 East 46<sup>th</sup> Street; AI 19971) is mapped adjacent to the Mowery Street and US 36 intersection, but is located 0.03 mile northwest of the project area. According to the Hazardous Waste Handler Identification form on December 11, 2002 the facility is a Conditionally Exempt Small Quantity Generator (CESQG). No impact is expected.
- \*Goodyear Asc 6771 (8347 Pendleton Pike; AI 16371) is an unmapped facility located 0.07 mile south of the US 36 and Maple Lane intersection. This site is identified as a CESQG. No impact is expected.
- Alexander Screw Products Incorporated (4735 Geneva; AI: 25148) is mapped adjacent to the project area on the northeast quadrant of the US 36 and Geneva Avenue intersection. According to the Hazardous Waste Handler Identification form on January 14, 2014 the facility is a CESQG. No impact is expected.
- Industrial Waste Management (a.k.a. Waste Management of Indianapolis; 10000 East 56<sup>th</sup> Street; AI 12311) is mapped 0.13 mile west of the US 36 and East 56<sup>th</sup> Street intersection, but is located 0.07 mile west of the US 36 and East 56<sup>th</sup> Street intersection. Refer to the State Cleanup section below for additional information. If

excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.

- Star Cleaners (6312 Oaklandon Road; AI 17202) is mapped 0.07 mile north of the US 36 and Oaklandon Road intersection, but is located in the northwest quadrant of the US 36 and Oaklandon Road intersection. Solvent contaminated soils remain on site. IDEM provided a "Contained-in" Determination for Contaminated Soil on May 15, 2017. Refer to the State Cleanup section below for additional information.
- Voelkel Body Shop Incorporated (6201 Oaklandon Road; AI 16451) is mapped on the southeast quadrant of the US 36 and Oaklandon Road intersection but is located 0.12 mile south of the US 36 and Oaklandon Road intersection. According to the Hazardous Waste Handler Identification form on March 6, 2006, Voelkel Body Shop is a CESQG. No impact is expected.

#### *State Cleanup Sites:*

Nine (9) State Cleanup sites, eight (8) mapped and one (1) unmapped\*, were identified within the 0.5 mile radius. Five (5) State Cleanup sites were located within or near the project area.

- Indiana Car & Truck (9002 Pendleton Pike; AI: 19426) is mapped on the southeast quadrant of the US 36 and Post Road intersection. IDEM issued a NFA Approval Pursuant to RCG on May 8, 2014 granting an unconditional closure for soil, groundwater, and vapor intrusion. Approximately 270 tons of VOCs and Lead contaminated soil was discovered and removed from the site. Low levels of petroleum contamination may remain adjacent to the project area. If excavation occurs, proper handling, removal and disposal of soil and/or groundwater will be necessary.
- Former Marathon #1637 (8001 Pendleton Pike, AI: 23289) is mapped within the project area, on the southeast corner of the US 36 and Franklin Road intersection. According to the No Further Action (NFA) Determination Pursuant to RISC issued by IDEM on December 21, 2005, petroleum contamination remains in the area surrounding the site. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- Industrial Waste Management (a.k.a. Waste Management of Indianapolis; 10000 East 56<sup>th</sup> Street; AI 12311) is mapped 0.13 mile west of the US 36 and East 56<sup>th</sup> Street intersection, but is located 0.07 mile west of the US 36 and East 56<sup>th</sup> Street intersection. According to the NFA issued on July 16, 2004, low levels of petroleum contaminated soil and groundwater remain on site. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- TF Development (10422 Pendleton Pike; AI: 24849) is mapped within the project area, 0.06 mile west of the US 36 and Thunderbird Road intersection. A NFA Determination Pursuant to RISC was issued by IDEM on October 17, 2006, and states low levels of soil contamination remain on site. If excavation occurs, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- \*Star Cleaners (6312 Oaklandon Road; AI 17202) is an unmapped State Cleanup facility (mapped under RCRA) 0.07 mile north of the US 36 and Oaklandon Road intersection, but is located in the northwest quadrant of the US 36 and Oaklandon Road intersection. Solvent contaminated soils remain on site. IDEM provided a "Contained-in" Determination for Contaminated Soil on May 15, 2017. Groundwater flow is towards the project area but soil and groundwater data between the contamination source area and the public right-of-way was below the applicable cleanup objectives. No impact is expected.

#### *Underground Storage Tank (UST) Sites:*

Seventeen (17) UST sites were identified within the 0.5 mile radius. Five (5) UST sites were located within or near the project area.

- United States Post Office - Lawrence Branch (4430 McCoy Street; AI 22046) is mapped adjacent to the US 36 and McCoy Street intersection. According to the Underground Storage Tank Closure Report dated October 1991, a gasoline UST was closed and removed starting March 20, 1991. Stained and contaminated soils were noted and removed. Testing after remediation showed that TPH concentrations were below the detection limit. No impact is expected.

- Bragdons (8800 Pendleton Pike; AI 21216) is mapped within the project area, 0.09 mile northeast of the US 36 and Geneva Avenue intersection. The site was operated as a gas station pre-1980. According to the UST Closure Form dated October 18, 1988, five (5) tanks were permanently taken out of service. Three (3) USTs were filled with inert material and two (2) were removed. In addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. If excavation occurs in this area, it is likely that petroleum would be encountered. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.
- Indiana Car & Truck (9002 Pendleton Pike; AI: 19426) is mapped on the southeast quadrant of the US 36 and Post Road intersection. IDEM conducted an Underground Storage Tank Inspection on September 22, 2020, and found the facility to be out of compliance with equipment, operating, and maintenance requirements set forth in Indiana's UST Rule 329 IAC 9; however, documentation reviewed does not indicate that a release occurred. Refer to the State Cleanup section for additional information.
- Murphy USA 6873 (10723 Pendleton Pike; AI: 23208) is mapped adjacent to the project area, 0.13 mile southwest of the US 36 and German Church Road intersection. IDEM conducted an UST Inspection on February 23, 2017, and found the facility to be compliant with equipment, operating, and maintenance requirements set forth in Indiana's UST Rule 329 IAC 9. No impact is expected.
- Thornton Oil Corp 140 (10901 Pendleton Pike; AI: 21106) is mapped adjacent to the project area at the southeast quadrant of the US 36 and German Church Road intersection. IDEM conducted an Underground Storage Tank Inspection on March 21, 2016 and the facility was found to be out of compliance with equipment, operating, and maintenance requirements set forth in Indiana's UST Rule 329 IAC 9; however, documentation reviewed does not indicate that a release occurred. No impact is expected.

#### *Voluntary Remediation Program:*

Three (3) voluntary remediation program (VRP) sites were identified within the 0.5 mile radius and are located within or near the project area.

- E&A Industries (8250 Pendleton Pike; AI: 23490) is mapped adjacent to the project area 0.10 mile northeast of the US 36 and Maple Lane intersection. IDEM issued a Certificate of Completion on May 10, 1999. The certificate of completion states that the gasoline and diesel contamination on the site are below the VRP Tier II Nonresidential levels in the soil. According to the Technical Opinion Letter issued on April 21, 1999 the gasoline is migrating from the neighboring property to the east. No impact is expected.
- Babcock & Wilcox Engineering (a.k.a Precision Machine; 10930 East 59<sup>th</sup> Street; AI: 17426) is mapped 0.12 mile northwest of the US 36 and Sunnyside Road intersection. According to the Phase I dated May 21, 2018, known contaminants such as hydrocarbons and chlorinated solvents were released to soil and groundwater. According to the 4<sup>th</sup> Quarter Monitoring Report dated May 20, 2020, groundwater is flowing to the west away from the project area. No impact is expected.
- Simplexgrinnell (a.k.a Flagship Capitol Corporation; 11820 Pendleton Pike; AI 13069) is mapped on the northeast corner of the US 36 and Oaklandon Road intersection. IDEM issued a Covenant Not to Sue on April 26, 2012. Low levels of soil and groundwater petroleum contamination remain on the site. An ERC was placed on the property on March 25, 2010. The ERC prohibits the use of groundwater, but not soil. Groundwater flow fluctuates from southwest to southeast and was historically present at depths of less than 2 ft bgs at some locations. If excavation occurs in this area, it is likely that petroleum would be encountered. In addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

#### *Leaking Underground Storage (LUST) Sites:*

Thirty-nine (39) LUST sites were identified within the 0.5 mile radius. Twenty (20) LUSTs were located within or near the project area.

- Groves Bros Service (7608 Pendleton Pike; AI 18223) is mapped in the southeast quadrant of the US 36 and East 42<sup>nd</sup> Street intersection, but is located on the north side of Pendleton Pike (adjacent to the northeast quadrant of the intersection). Low levels of petroleum contaminants remain on site in the soils. IDEM issued a No Further

Action Approval Determination Pursuant to Remediation Closure Guide on August 22, 2000. No impact is expected.

- Crystal Flash #15, (7601 Pendleton Pike; AI 18470) is mapped in the southeast quadrant of the US 36 and East 42<sup>nd</sup> Street intersection. This facility was located at the southwest and southeast quadrants prior to development of the intersection. IDEM issued a NFA approval for this site on June 18, 2013. Four (4) ground water monitoring wells were abandoned that may be within the project area. A Phase II was conducted dated April 22, 2013 and concluded no significant soil or groundwater impacts from past operations at the site. If excavation occurs, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- Former Gas Station (7990 Pendleton Pike; AI: 104399) is mapped on the northwest quadrant of the US 36 and Franklin Road intersection. According to the NFA Approval Determination Pursuant to Remediation Closure Guide dated October 7, 2016, petroleum contamination remains in the groundwater. An ERC was placed on this property July 18, 2016. The ERC prohibits the use of groundwater, but not soil. According to the Corrective Action Progress Report dated October 17, 2014, groundwater is flowing to the southeast into the project area. If excavation occurs, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- Jiffy Lube (a.k.a. Q Lube 9607; 7969 Pendleton Pike; AI: 17084) is mapped within the project area, at the southwest quadrant of the US 36 and Franklin Road intersection. According to the Draft Notice of Contamination within a Right-of-Way dated February 9, 2017, petroleum contaminated soil and groundwater remains in the area surrounding the site and exists in the right-of-way (ROW). Low levels of contaminated soils and groundwater remain on the site. If excavation occurs, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- City of Lawrence Fire Department (4450 McCoy Street; AI 20516) is mapped 0.11 mile north of the US 36 and McCoy Street intersection. According to the Approval of No Further Action Status Letter on January 7, 2005, low levels of soil and groundwater contamination remain on the site. No impact is expected.
- United States Post Office - Lawrence Branch (4430 McCoy Street; AI 22046) is mapped adjacent to the US 36 and McCoy Street intersection. Refer to the UST discussion above regarding this property. No impact is expected.
- Guarantee Auto (4520 Mowery Street; AI 18098) is mapped 0.07 mile north of the Mowery Street and Pendleton Pike intersection. IDEM issued a NFA on August 12, 1999. Low levels of petroleum contaminated soils remain on the site. Groundwater is documented flowing north, away from the project area. No impact is expected.
- Goodyear Asc 6771 (8347 Pendleton Pike; AI 16371) is mapped 0.07 mile south of the US 36 and Maple Lane intersection. IDEM issued a NFA on June 17, 2016. The former waste oil UST was removed and all contaminated soils were removed and disposed of off-site. No impact is expected.
- Emro Marketing United #6103 (8444 Pendleton Pike; AI: 17145) is mapped within the project area, in the northwest quadrant of the US 36 and Maple Lane intersection. IDEM issued a NFA Approval Determination Pursuant to IDEM RISC Guidance on February 21, 2013. Low levels of soil and groundwater petroleum contamination remains on the site and extends into the INDOT right-of-way of US 36 and 46th Street (this facility is also listed as a Notice of Contamination site). According to the October 31, 2012 Monitoring Report, contaminants were documented in shallow groundwater (generally present within 4 feet bgs). If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- Amerco U-Haul (8550 Pendleton Pike; AI: 21838) is mapped within the project area, 0.11 mile northeast of the US 36 and Maple Lane intersection. According to the UST Reporting Letter dated February 23, 1990, petroleum contaminated soils were discovered when removing two USTs. As of March 17, 2020, no other investigation has ever been conducted on this property. A Phase II Environmental Site Assessment is recommended. Prior to any investigation activities, a scope of work plan will be prepared and submitted to INDOT SAM for review and approval.

- Super 7 Store 228 (a.k.a. Garb-Ko Super Store; 8990 Pendleton Pike; AI: 20523) is mapped on the northwest corner of the US 36 and Post Road intersection. IDEM issued a NFA Approval Determination Pursuant to RCG on March 1, 2018. Low levels of soil and groundwater petroleum contamination remain on the site. According to the Further Site Investigation (FSI) on January 13, 2016, shallow groundwater contamination (4-7 feet bgs) extends into the ROW of US 36 and Post Road. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- Amoco SS 00547 (9001 E Pendleton Pike; AI: 16772) is mapped within the project area, on the southeast quadrant of the US 36 and Post Road intersection. According to the Traffic Signal Plan dated November 16, 2017, petroleum contamination was documented in shallow soils and groundwater (generally present between 0.8 and 4 feet bgs). If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- United #6225 (a.k.a. Song Motors; 9065 Pendleton Pike; AI: 22120) is mapped adjacent to the project area, 0.14 mile southeast of the US 36 and Post Road intersection. The site was formerly a gas station and ceased operation in 1990. An ERC was placed on the property on September 8, 2006. The ERC prohibits the use of groundwater and excavation of soils deeper than 3 feet bgs without implementation of a soil management plan; however, the maximum depth of work proposed at this intersection is 2 feet and will not extend into the property. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary.
- Monarch Beverage (9347 Pendleton Pike; AI: 59058) is mapped within the project area, 0.09 mile northeast of the US 36 and Shelia Drive intersection. There are no records in the VFC regarding a LUST incident occurring at the site. IDEM conducted an Underground Storage Tank Inspection on June 27, 2016, and found the facility in compliance with equipment, operating, and maintenance requirements set forth in Indiana's UST Rule 329 IAC 9. No impact is expected.
- Sunoco (a.k.a. Marathon; 9605 Pendleton Pike; AI: 17403) is mapped in the project area at the US 36 and Wheel Estates Drive intersection. There are no records in the VFC regarding a LUST incident occurring at the site. IDEM conducted an UST Inspection on December 30, 2016, and the facility was found to be in compliance with equipment, operating, and maintenance requirements set forth in Indiana's UST Rule 329 IAC 9. No impact is expected.
- Sunoco Service Station #60 (9545 Pendleton Pike; AI: 18772) is mapped within the project area, in the southeast quadrant of the US 36 and Wheel Estates Drive intersection. According to the NFA issued on April 21, 2003, low levels of soil and groundwater contamination remain on the site. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary.
- Industrial Waste Management (a.k.a. Waste Management of Indianapolis; 10000 East 56<sup>th</sup> Street; AI 12311) is mapped 0.13 mile northwest of the US 36 and East 56<sup>th</sup> Street intersection, but is located 0.07 mile northwest of the US 36 and East 56<sup>th</sup> Street intersection. Refer to the State Cleanup site discussion above. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- Village Pantry LLC (10950 Pendleton Pike; AI: 18759) is mapped adjacent to the project area on the northwest quadrant of the US 36 and Sunnyside Road intersection. According to a NFA Determination Pursuant to RISC on May 31, 2010, low levels of petroleum contaminated groundwater remains on the site. According to the Second Quarter 2007 Corrective Action Progress Report dated July 31, 2007, groundwater is flowing to the south/southeast into the project area. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- BP Amoco Oil Co (11019 Pendleton Pike; AI: 22244) is mapped adjacent to the project site on the southeast corner of the US 36 and Sunnyside Road intersection. IDEM issued a Deactivated LUST letter on June 27, 2007 stating that no release occurred from the UST system at the facility. IDEM conducted an UST Inspection on



February 19, 2016 and the facility was found to be in compliance with equipment, operating, and maintenance requirements set forth in Indiana's UST Rule 329 IAC 9. No impact is expected.

- Circle K #2362 (a.k.a. Crystal Flash #38; 6308 Oaklandon Road; AI 19009) is mapped on the northeast corner of the US 36 and Oaklandon Road intersection. IDEM issued a NFA Determination Pursuant to IDEM RISC Guidance on September 7, 2011. Low levels of soil and groundwater petroleum contamination remain on the site that were reported below residential cleanup objectives. No impact is expected.

#### *Brownfields:*

Twelve (12) Brownfields were identified within the 0.5 mile radius. Eleven (11) Brownfield sites were located within or near the project area.

- Schirmer Property (7600 Pendleton Pike; AI: 120368) is mapped within the project area, on the northwest quadrant of the US 36 and East 42<sup>nd</sup> Street intersection. According to the Comfort Letter dated February 10, 2021, metals reside in the site soils and metals, petroleum products, and lead reside in the groundwater. In the letter IDEM recommends an ERC with restrictions on excavation of soils and extraction of groundwater. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. In addition to petroleum contamination, it is likely that lead (and other metals) would be in the soil/groundwater. Before proper removal and disposal of soil and/or groundwater, analysis for lead and other metals will be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- Knights Inn (4326 & 4328 Sellers Street; AI 104290) is mapped in the northwest quadrant of the US 36 and Sellers Street intersection but is located at the northwest corner of Allen Street and Sellers Street intersection (and north of the Schirmer Property). According to the Supplemental Phase II ESA dated July 6, 2020, petroleum and metals were identified in shallow (0 to 2 inch) soil and/or groundwater. According to the Comfort Letter dated February 10, 2021, petroleum and arsenic contaminations were found in the groundwater. Groundwater flows south into project area. If excavation occurs, proper handling, removal and disposal of soil and/or groundwater will be necessary.
- Regency Electronics Incorporated (7707 & 7711 Records Street; AI 16035) is mapped 0.09 mile north of the US 36 and Hull Street intersection. According to a Comfort Letter dated December 16, 2014, trichloroethene (TCE) contaminated groundwater was detected on-site. Groundwater was generally present 12-24 feet bgs, however, the maximum depth of work proposed at this location is 2 feet. No impact is expected.
- Permanent Magnet Company, Inc. (4437 Bragdon Street; AI 16158) is mapped 0.16 mile north of the US 36 and Bragdon Street intersection. According to the Phase II ESA dated September 26, 2017, metals, VOC, and SVOC contamination remains on site in the soil and shallow groundwater. Groundwater flows southwest toward the project area and contaminated groundwater was generally present 2-8 feet bgs. The Phase II report noted that metal contaminants in groundwater are likely associated with shallow urban fill sediments within the property. VOCs and SVOCs were not detected in groundwater for consumption. An ERC was placed on the property on January 29, 2018, which prohibits the excavation of soil without following a soil management plan and prohibits the use of groundwater on the property. Though the maximum depth of work proposed at this intersection is 12 feet, contaminants are not likely to be encountered (based on the available laboratory data). No impact is expected.
- Former Marathon #1637 (8001 Pendleton Pike, AI: 23289) is mapped within the project area, on the southeast corner of the US 36 and Franklin Road intersection. Refer to the State Cleanup discussion above referring to this property. If excavation occurs, proper handling, removal and disposal of soil and/or groundwater will be necessary.
- Vacant Commercial Building/Former Texaco (8102 Pendleton Pike; AI: 49563) is mapped on the northeast quadrant of the US 36 and McCoy Street intersection and has a history of use as a fueling station, automotive repair shop, and towing company. According to the Phase II dated September 30, 2020 for 8102 – 8150 Pendleton Pike (AI 127056), petroleum contaminants remain at low levels in the soils and groundwater. Groundwater flow is generally to the northwest at 10ft bgs or deeper. No impact is expected.

- Indy Spotless Auto Wash (8150 Pendleton Pike; AI 127056) is mapped 0.07 mile northeast of the US 36 and McCoy Street intersection. Refer to Vacant Commercial Building/Former Texaco (AI 49563) discussed immediately above, as they were combined during the Phase II ESA on September 30, 2020. No impact is expected.
- Lawrence Township Schools (8301 East 46<sup>th</sup> Street; AI: 19971) is mapped adjacent to the US 36 and Mowery Street intersection, but is located 0.03 mile northwest of the project area. IDEM issued a No Further Action (NFA) in October 20, 2016. No impact is expected.
- Park Harrison Apartments (9025 El Dorado Drive; AI: 109287) is mapped 0.17 mile north of the US 36 and Post Road intersection. According to a Phase II dated May 2, 2014, Tetrachloroethene (PCE) contaminated groundwater from the adjacent property has migrated onto this site. An ERC was placed on the property on November 4, 2015. The ERC prohibits the use of groundwater, but not soil. Groundwater was generally present at or below 14 feet bgs, however, the maximum depth of work proposed at this intersection is 2 feet. No impact is expected.
- Carson Corporation Property (5885 North German Church Road; AI: 126670) is mapped 0.09 mile northwest of the US 36 and German Church Road/ Sunnyside Road intersection. According to a Comfort Letter dated September 28, 2020, petroleum contaminated groundwater from the former Precision Machine (a.k.a. Babcock & Wilcox) may flow into this site. See the VRP discussion above regarding the Babcock & Wilcox Engineering site. No impact is expected.
- Babcock & Wilcox Engineering (a.k.a. Precision Machine; 10930 East 59th Street; AI: 17426) is mapped 0.15 mile northwest of the US 36 and Sunnyside Road intersection. Refer to the VRP discussion regarding this property. No impact is expected.

#### *Waste Transfer Stations:*

Three (3) waste transfer stations were identified within the 0.5 mile radius. One (1) waste transfer station was identified near the project area.

- Waste Management of Indianapolis (a.k.a. Industrial Waste Management; 10000 East 56<sup>th</sup> Street; AI 12311) is mapped 0.16 mile north of the US 36 and Mithoeffer Road intersection. IDEM conducted Solid Waste Processing Facility and Transfer Station Inspection Report on August 12, 2021, and the facility was found to be in compliance with requirements set forth in Indiana's Solid Waste Processing Facilities rule 329 IAC 11. No impact is expected.

#### *Institutional Controls:*

Twenty-four (24) institutional controls were identified within the 0.5 mile radius. Eight (8) institutional control sites were located within or near the project area.

- Former Gas Station (7990 Pendleton Pike; AI: 104399) is mapped on the northwest quadrant of the US 36 and Franklin Road intersection. Refer to the LUST discussion above regarding this property. If excavation occurs, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- Village Pantry 604 (4201 N. Franklin Road; AI: 18886) is mapped 0.30 mile south of the US 36 and Franklin Road intersection. According to an NFA Approval Determination Pursuant to IDEM RISC Guidance dated October 22, 2007, benzene contaminated groundwater remains in the area surrounding the site and does not extend off-site. An ERC was placed on the property on July 30, 2007, prohibiting the extraction of groundwater. No impact is expected.
- Lawrence Auto Mall (8510 Pendleton Pike; AI: 100962) is mapped 0.04 mile northeast of the US 36 and Maple Lane intersection. IDEM issued a Covenant Not to Sue on July 25, 2012. Petroleum Hydrocarbons, VOCs and SVOCs remain on the property. An ERC was placed on the property on February 17<sup>th</sup>, 2012, which prohibits the use or extraction of groundwater, but not soil. According to the Covenant Not to sue, soil and groundwater contaminants are delineated to within the property boundary. Work depth proposed near this location is limited 2 feet and will not extend onto the property. No impact is expected.

- Park Harrison Apartments (9025 El Dorado Drive; AI: 109287) is mapped 0.17 mile north of the US 36 and Post Road intersection. Refer to the Brownfield discussion above regarding this property. No impact is expected.
- United #6225 (a.k.a. Song Motors; 9065 Pendleton Pike; AI: 22120) is mapped adjacent to the project area, 0.14 mile northeast of the US 36 and Post Road intersection. Refer to the LUST discussion above regarding this property. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary.
- Babcock & Wilcox Engineering (a.k.a. Precision Machine; 10930 East 59<sup>th</sup> Street; AI: 17426) is mapped 0.15 mile northwest of the US 36 and Sunnyside Road intersection. Refer to the VRP discussion regarding this property. No impact is expected.
- Simplexgrinnell (a.k.a. Flagship Capitol Corporation; 11820 Pendleton Pike; AI 13069) is mapped on the northeast corner of the US 36 and Oaklandon Road intersection. Refer to the VRP discussion above for this property. If excavation occurs in this area, it is likely that petroleum would be encountered. In addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

#### *NPDES Facilities:*

Twenty-six (26) NPDES facilities were identified within the 0.5 mile radius. Six (6) active NPDES Facilities were located within or near the project area.

- Kindercare Learning Center (12015 Pendleton Pike; INRA04898) is mapped 0.09 mile west of US 36 & Sellers Street intersection. The NPDES permit for this facility is in effect until April 30, 2024. Coordination with the facility and/or permit owner should occur.
- Tire Discounters Pendleton Pike (7705 East 42<sup>nd</sup> Street; INRA03121) is mapped 0.09 mile southwest of the US 36 and Sellers Street intersection. The NPDES permit for this facility is in effect until March 26, 2024. Coordination with the facility and/or permit owner should occur.
- Belle Tire Store #161 (9535 Pendleton Pike; INRA03288) is mapped 0.07 mile southeast of US 36 and Wheel Estates intersection. The NPDES permit for this facility is in effect until April 22, 2024. Coordination with the facility and/or permit owner should occur.
- Discount Tire Lawrence (10032 Pendleton Pike; INRA01170) is mapped 0.03 mile west of the US 36 and East 56<sup>th</sup> Street intersection. The NPDES permit for this facility is in effect until April 1, 2023. Coordination with the facility and/or permit owner should occur.
- Storage of America (8805 Pendleton Pike; INR10M984) is mapped 0.24 mile southwest of the US 36 and Post Road intersection. The NPDES permit for this facility is in effect until November 7, 2021. Coordination with the facility and/or permit owner should occur.
- Ray's East Recycling and Transfer (10000 East 56th Street; INRM02049) is mapped 0.11 mile northwest of the US 36 and East 56th Street intersection. The NPDES permit for this facility is in effect until October 16, 2021. Coordination with the facility and/or permit owner should occur.

#### **ECOLOGICAL INFORMATION SUMMARY**

The Marion County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities are provided at [https://www.in.gov/dnr/naturepreserve/files/np\\_marion.pdf](https://www.in.gov/dnr/naturepreserve/files/np_marion.pdf). A preliminary review of the Indiana Natural Heritage Database by INDOT ESD did/did not indicate the presence of ETR species within the 0.5 mile search radius.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The project area is located in an urban area surrounded by residential, commercial and light industrial areas.

The most recent inspection report for the following culverts states that no evidence of bats was seen or heard within:

- Culvert # I465-049-41.44 R (May 17, 2020)
- Culvert # I465-049-41.48 (May 17, 2020)
- Culvert # I465-049-41.47 L (May 17, 2020)
- Culvert # I465-049-41.43 L (May 17, 2020)
- Bridge # 50090 (June 11, 2020)
- Bridge # 50100 (June 11, 2020)
- Culvert # 036-049-71.30 (October 2, 2018)
- Bridge # 24120 (August 27, 2020)
- Culvert # 036-049-73.46 (October 2, 2018)

The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

## **RECOMMENDATIONS SECTION**

### **INFRASTRUCTURE:**

*Religious Facilities:* Three (3) religious facilities, two (2) unmapped\* and one (1) mapped, are located adjacent to or near the project area.

- Lawrence Full Gospel Tabernacle, 8165 East 45th Street, Lawrence, is located 0.06 mile north of the US 36 and Mowery Street intersection. Coordination with the facility will occur.
- \*Discover Church, 11605 Pendleton Pike #3908, Indianapolis, is located 0.04 mile northeast of the intersection of US 36 and Newport Drive adjacent to the south side of US 36. Coordination with the facility will occur.
- \*Full Gospel Church of the Rock, 8669 Pendleton Pike #6603, Indianapolis, is located 0.02 mile southwest of the intersection of US 36 and Geneva Avenue adjacent to the south side of US 36. Coordination with the facility will occur.

*Recreational Facilities:* One (1) recreational facility, Veteran's Memorial Park, is located adjacent to the south side of US 36, 0.16 mile northeast of the US 36 and Oaklandon Road intersection. Coordination with Lawrence Parks and Recreation will occur.

*Airports:* One (1) public airport, Indianapolis Regional Airport, is located 3.4 miles southeast of the eastern terminus of the project area. Coordination with INDOT Aviation will occur.

*Pipelines:* One (1) pipeline segment, Citizens Gas & Coke Utility, crosses east to west under the I-465/US 36 interchange through the project area. Coordination with INDOT Utilities and Railroads should occur.

*Cemeteries:* One (1) Cemetery is located adjacent to the project area. Hoss cemetery is located 0.22 mile southwest of the US 36 and Sunnyside Road intersection. Coordination with INDOT Cultural Resources will occur.

*Trails:* One (1) trail segment is located adjacent to the project area, spanning from 0.27 mile northwest of the US 36 and Sunnyside Road intersection to 0.18 mile northeast of the US 36 and Oaklandon intersection. Coordination with the Lawrence Parks and Recreation Department will occur.

*Managed Lands:* One (1) Managed Land, Veteran's Park, is located adjacent to the project area, 0.16 mile northeast of the US 36 and Oaklandon Road intersection. Coordination with the Lawrence Parks and Recreation Department will occur.

## **WATER RESOURCES:**

The Presence of the following water resources will require the preparation of a Waters of the US Report and coordination with INDOT ESD Ecology and Waterway Permitting:

- One (1) NWI point is located within the project area, 0.22 mile northeast of the US 36 and Sunnyside Road intersection.
- One (1) NWI-line, associated with Indian Creek, is located within the project area, 0.22 mile northeast of the US 36 and Sunnyside Road intersection.
- Three (3) IDEM 303d listed streams (impaired), Indian Creek, Billings Creek\* and Mock Creek, are located within the project area.
- Three (3) streams, Indian Creek, Billings Creek and Mock Creek, are located within the project area.
- Three (3) NWI-wetlands are located within or adjacent to the project area.
- The project area is located within four of the floodplain polygons all associated with Indian Creek.

## **MINING/MINERAL EXPLORATION: N/A**

## **HAZARDOUS MATERIAL CONCERNS:**

### *RCRA Generator/TSD:*

One (1) RCRA Generators/TSDs were located within or near the project area.

- Industrial Waste Management (a.k.a. Waste Management of Indianapolis; 10000 East 56<sup>th</sup> Street; AI 12311) is mapped 0.13 mile west of the US 36 and East 56<sup>th</sup> Street intersection, but is located 0.07 mile west of the US 36 and East 56<sup>th</sup> Street intersection. Refer to the State Cleanup section below for additional information. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.

### *State Cleanup Sites:*

Four (4) State Cleanup sites were located within or near the project area.

- Indiana Car & Truck (9002 Pendleton Pike; AI: 19426) is mapped on the southeast quadrant of the US 36 and Post Road intersection. IDEM issued a NFA Approval Pursuant to RCG on May 8, 2014 granting an unconditional closure for soil, groundwater, and vapor intrusion. Approximately 270 tons of VOCs and Lead contaminated soil was discovered and removed from the site. Low levels of petroleum contamination may remain adjacent to the project area. If excavation occurs, proper handling, removal and disposal of soil and/or groundwater will be necessary.
- Former Marathon #1637 (8001 Pendleton Pike, AI: 23289) is mapped within the project area, on the southeast corner of the US 36 and Franklin Road intersection. According to the No Further Action (NFA) Determination Pursuant to RISC issued by IDEM on December 21, 2005, petroleum contamination remains in the area surrounding the site. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- Industrial Waste Management (a.k.a. Waste Management of Indianapolis; 10000 East 56<sup>th</sup> Street; AI 12311) is mapped 0.13 mile west of the US 36 and East 56<sup>th</sup> Street intersection, but is located 0.07 mile west of the US 36 and East 56<sup>th</sup> Street intersection. According to the NFA issued on July 16, 2004, low levels of petroleum contaminated soil and groundwater remain on site. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- TF Development (10422 Pendleton Pike; AI: 24849) is mapped within the project area, 0.06 mile west of the US 36 and Thunderbird Road intersection. A NFA Determination Pursuant to RISC was issued by IDEM on October 17, 2006, and states low levels of soil contamination remain on site. If excavation occurs, proper handling, removal, and disposal of soil and/or groundwater will be necessary.

#### *Underground Storage Tank (UST) Sites:*

Two (2) UST site were located within or near the project area.

- Bragdons (8800 Pendleton Pike; AI 21216) is mapped within the project area, 0.09 mile northeast of the US 36 and Geneva Avenue intersection. The site was operated as a gas station pre-1980. According to the UST Closure Form dated October 18, 1988, five (5) tanks were permanently taken out of service. Three (3) USTs were filled with inert material and two (2) were removed. In addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. If excavation occurs in this area, it is likely that petroleum would be encountered. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.
- Indiana Car & Truck (9002 Pendleton Pike; AI: 19426) is mapped on the southeast quadrant of the US 36 and Post Road intersection. IDEM conducted an Underground Storage Tank Inspection on September 22, 2020, and found the facility to be out of compliance with equipment, operating, and maintenance requirements set forth in Indiana's UST Rule 329 IAC 9; however, documentation reviewed does not indicate that a release occurred. Refer to the State Cleanup section for additional information.

#### *Voluntary Remediation Program:*

One (1) Voluntary Remediation Program (VRP) site was identified within project area.

- Simplexgrinnell (a.k.a Flagship Capitol Corporation; 11820 Pendleton Pike; AI 13069) is mapped on the northeast corner of the US 36 and Oaklandon Road intersection. IDEM issued a Covenant Not to Sue on April 26, 2012. Low levels of soil and groundwater petroleum contamination remain on the site. An ERC was placed on the property on March 25, 2010. The ERC prohibits the use of groundwater, but not soil. Groundwater flow fluctuates from southwest to southeast and was historically present at depths of less than 2 ft bgs at some locations. If excavation occurs in this area, it is likely that petroleum would be encountered. In addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

#### *Leaking Underground Storage (LUST) Sites:*

Eleven (11) LUSTs were located within or near the project area.

- Crystal Flash #15, (7601 Pendleton Pike; AI 18470) is mapped in the southeast quadrant of the US 36 and East 42<sup>nd</sup> Street intersection. This facility was located at the southwest and southeast quadrants prior to development of the intersection. IDEM issued a NFA approval for this site on June 18, 2013. Four (4) ground water monitoring wells were abandoned, that may be within the project area. A Phase II was conducted dated April 22, 2013 and concluded no significant soil or groundwater impacts from past operations at the site. If excavation occurs, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- Former Gas Station (7990 Pendleton Pike; AI: 104399) is mapped on the northwest quadrant of the US 36 and Franklin Road intersection. According to the NFA Approval Determination Pursuant to Remediation Closure Guide dated October 7, 2016, petroleum contamination remains in the groundwater. An ERC was placed on this property July 18, 2016. The ERC prohibits the use of groundwater, but not soil. According to the Corrective Action Progress Report dated October 17, 2014, groundwater is flowing to the southeast into the project area. If excavation occurs, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- Jiffy Lube (a.k.a. Q Lube 9607; 7969 Pendleton Pike; AI: 17084) is mapped within the project area, at the southwest quadrant of the US 36 and Franklin Road intersection. According to the Draft Notice of Contamination within a Right-of-Way dated February 9, 2017, petroleum contaminated soil and groundwater remains in the area surrounding the site and exists in the right-of-way (ROW). Low levels of contaminated soils and groundwater remain on the site. If excavation occurs, proper handling, removal, and disposal of soil and/or groundwater will

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be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.

- Emro Marketing United #6103 (8444 Pendleton Pike; AI: 17145) is mapped within the project area, in the northwest quadrant of the US 36 and Maple Lane intersection. IDEM issued a NFA Approval Determination Pursuant to IDEM RISC Guidance on February 21, 2013. Low levels of soil and groundwater petroleum contamination remains on the site and extends into the INDOT right-of-way of US 36 and 46th Street (this facility is also listed as a Notice of Contamination site). According to the October 31, 2012 Monitoring Report, contaminants were documented in shallow groundwater (generally present within 4 feet bgs). If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- Amerco U-Haul (8550 Pendleton Pike; AI: 21838) is mapped within the project area, 0.11 mile northeast of the US 36 and Maple Lane intersection. According to the UST Reporting Letter dated February 23, 1990, petroleum contaminated soils were discovered when removing two USTs. As of March 17, 2020, no other investigation has ever been conducted on this property. A Phase II Environmental Site Assessment is recommended. Prior to any investigation activities, a scope of work plan will be prepared and submitted to INDOT SAM for review and approval.
- Super 7 Store 228 (a.k.a. Garb-Ko Super Store; 8990 Pendleton Pike; AI: 20523) is mapped on the northwest corner of the US 36 and Post Road intersection. IDEM issued a NFA Approval Determination Pursuant to RCG on March 1, 2018. Low levels of soil and groundwater petroleum contamination remain on the site. According to the Further Site Investigation (FSI) on January 13, 2016, shallow groundwater contamination (4-7 feet bgs) extends into the ROW of US 36 and Post Road. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- Amoco SS 00547 (9001 E Pendleton Pike; AI: 16772) is mapped within the project area, on the southeast quadrant of the US 36 and Post Road intersection. According to the Traffic Signal Plan dated November 16, 2017, petroleum contamination was documented in shallow soils and groundwater (generally present between 0.8 and 4 feet bgs). If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- United #6225 (a.k.a. Song Motors; 9065 Pendleton Pike; AI: 22120) is mapped adjacent to the project area, 0.14 mile southeast of the US 36 and Post Road intersection. The site was formerly a gas station and ceased operation in 1990. An ERC was placed on the property on September 8, 2006. The ERC prohibits the use of groundwater and excavation of soils deeper than 3 feet bgs without implementation of a soil management plan; however, the maximum depth of work proposed at this intersection is 2 feet and will not extend into the property. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary.
- Sunoco Service Station #60 (9545 Pendleton Pike; AI: 18772) is mapped within the project area, in the southeast quadrant of the US 36 and Wheel Estates Drive intersection. According to the NFA issued on April 21, 2003, low levels of soil and groundwater contamination remain on the site. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary.
- Industrial Waste Management (a.k.a. Waste Management of Indianapolis; 10000 East 56<sup>th</sup> Street; AI 12311) is mapped 0.13 mile northwest of the US 36 and East 56<sup>th</sup> Street intersection, but is located 0.07 mile northwest of the US 36 and East 56<sup>th</sup> Street intersection. Refer to the State Cleanup site discussion above. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- Village Pantry LLC (10950 Pendleton Pike; AI: 18759) is mapped adjacent to the project area on the northwest quadrant of the US 36 and Sunnyside Road intersection. According to a NFA Determination Pursuant to RISC on May 31, 2010, low levels of petroleum contaminated groundwater remains on the site. According to the Second Quarter 2007 Corrective Action Progress Report dated July 31, 2007, groundwater is flowing to the south/

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southeast into the project area. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.

*Brownfields:*

Three (3) Brownfield sites were located within or near the project area.

- Schirmer Property (7600 Pendleton Pike; AI: 120368) is mapped within the project area, on the northwest quadrant of the US 36 and East 42<sup>nd</sup> Street intersection. According to the Comfort Letter dated February 10, 2021, metals reside in the site soils and metals, petroleum products, and lead reside in the groundwater. In the letter IDEM recommends an ERC with restrictions on excavation of soils and extraction of groundwater. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. In addition to petroleum contamination, it is likely that lead (and other metals) would be in the soil/groundwater. Before proper removal and disposal of soil and/or groundwater, analysis for lead and other metals will be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- Knights Inn (4326 & 4328 Sellers Street; AI 104290) is mapped in the northwest quadrant of the US 36 and Sellers Street intersection but is located at the northwest corner of Allen Street and Sellers Street intersection (and north of the Schirmer Property). According to the Supplemental Phase II ESA dated July 6, 2020, petroleum and metals were identified in shallow (0 to 2 inch) soil and/or groundwater. According to the Comfort Letter dated February 10, 2021, petroleum and arsenic contaminations were found in the groundwater. Groundwater flows south into project area. If excavation occurs, proper handling, removal and disposal of soil and/or groundwater will be necessary.
- Former Marathon #1637 (8001 Pendleton Pike, AI: 23289) is mapped within the project area, on the southeast corner of the US 36 and Franklin Road intersection. Refer to the State Cleanup discussion above referring to this property. If excavation occurs, proper handling, removal and disposal of soil and/or groundwater will be necessary.

*Institutional Controls:*

Three (3) Institutional Control sites were located within or near the project area.

- Former Gas Station (7990 Pendleton Pike; AI: 104399) is mapped on the northwest quadrant of the US 36 and Franklin Road intersection. Refer to the LUST discussion above regarding this property. If excavation occurs, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Coordination will be conducted with the IDEM Project Manager identified in the VFC documentation before further site activities occur.
- United #6225 (a.k.a. Song Motors; 9065 Pendleton Pike; AI: 22120) is mapped adjacent to the project area, 0.14 mile northeast of the US 36 and Post Road intersection. Refer to the LUST discussion above regarding this property. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary.
- Simplexgrinnell (a.k.a. Flagship Capitol Corporation; 11820 Pendleton Pike; AI 13069) is mapped on the northeast corner of the US 36 and Oaklandon Road intersection. Refer to the VRP discussion above for this property. If excavation occurs in this area, it is likely that petroleum would be encountered. In addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.



**NPDES Facilities:**

Six (6) NPDES Facilities were located within or near the project area.

- Kindercare Learning Center (12015 Pendleton Pike; INRA04898) is mapped 0.09 mile west of US 36 & Sellers Street intersection. The NPDES permit for this facility is in effect until April 30, 2024. Coordination with the facility and/or permit owner should occur.
- Tire Discounters Pendleton Pike (7705 East 42<sup>nd</sup> Street; INRA03121) is mapped 0.09 mile southwest of the US 36 and Sellers Street intersection. The NPDES permit for this facility is in effect until March 26, 2024. Coordination with the facility and/or permit owner should occur.
- Belle Tire Store #161 (9535 Pendleton Pike; INRA03288) is mapped 0.07 mile southeast of US 36 and Wheel Estates intersection. The NPDES permit for this facility is in effect until April 22, 2024. Coordination with the facility and/or permit owner should occur.
- Discount Tire Lawrence (10032 Pendleton Pike; INRA01170) is mapped 0.03 mile west of the US 36 and East 56<sup>th</sup> Street intersection. The NPDES permit for this facility is in effect until April 1, 2023. Coordination with the facility and/or permit owner should occur.
- Storage of America (8805 Pendleton Pike; INR10M984) is mapped 0.24 mile southwest of the US 36 and Post Road intersection. The NPDES permit for this facility is in effect until November 7, 2021. Coordination with the facility and/or permit owner should occur.
- Ray's East Recycling and Transfer (10000 East 56th Street; INRM02049) is mapped 0.11 mile northwest of the US 36 and East 56th Street intersection. The NPDES permit for this facility is in effect until October 16, 2021. Coordination with the facility and/or permit owner should occur.

**ECOLOGICAL INFORMATION:** The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

**Chad Pitcher,**  
**CHMM**

Digitally signed by Chad  
Pitcher, CHMM  
Date: 2022.01.18 13:38:54  
-05'00'

INDOT ESD concurrence: \_\_\_\_\_ (Signature)

Prepared by:



Kaitlyn Etzkorn  
Environmental Scientist  
CHA Consulting

**Graphics:**

SITE LOCATION: YES

INFRASTRUCTURE: YES

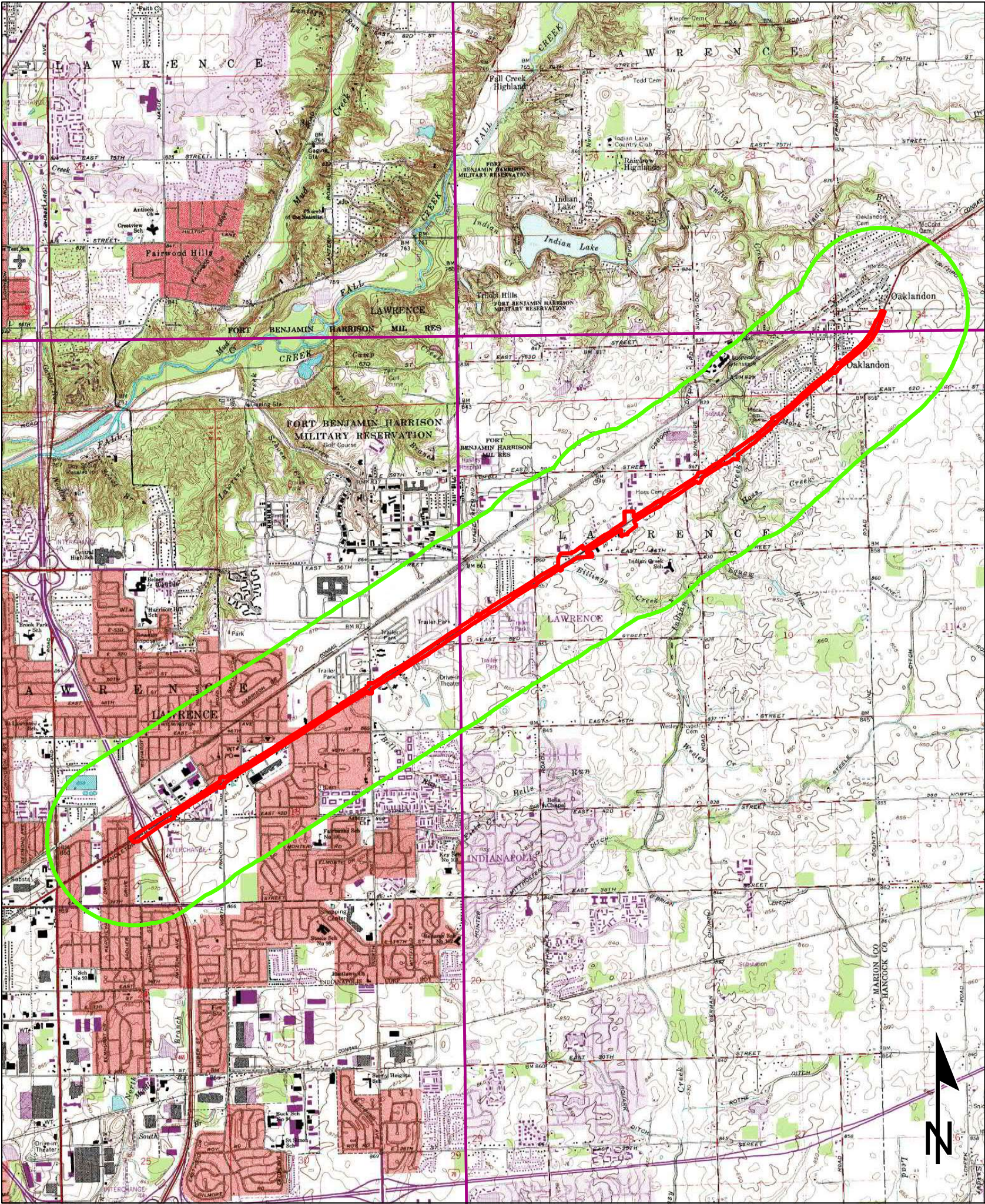
WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

HAZARDOUS MATERIAL CONCERNS: YES



Red Flag Investigation - Site Location  
Pendleton Pike (US 36), from I-465 to 65th Street  
Des. No. 1900157, Access Control  
Marion County, Indiana

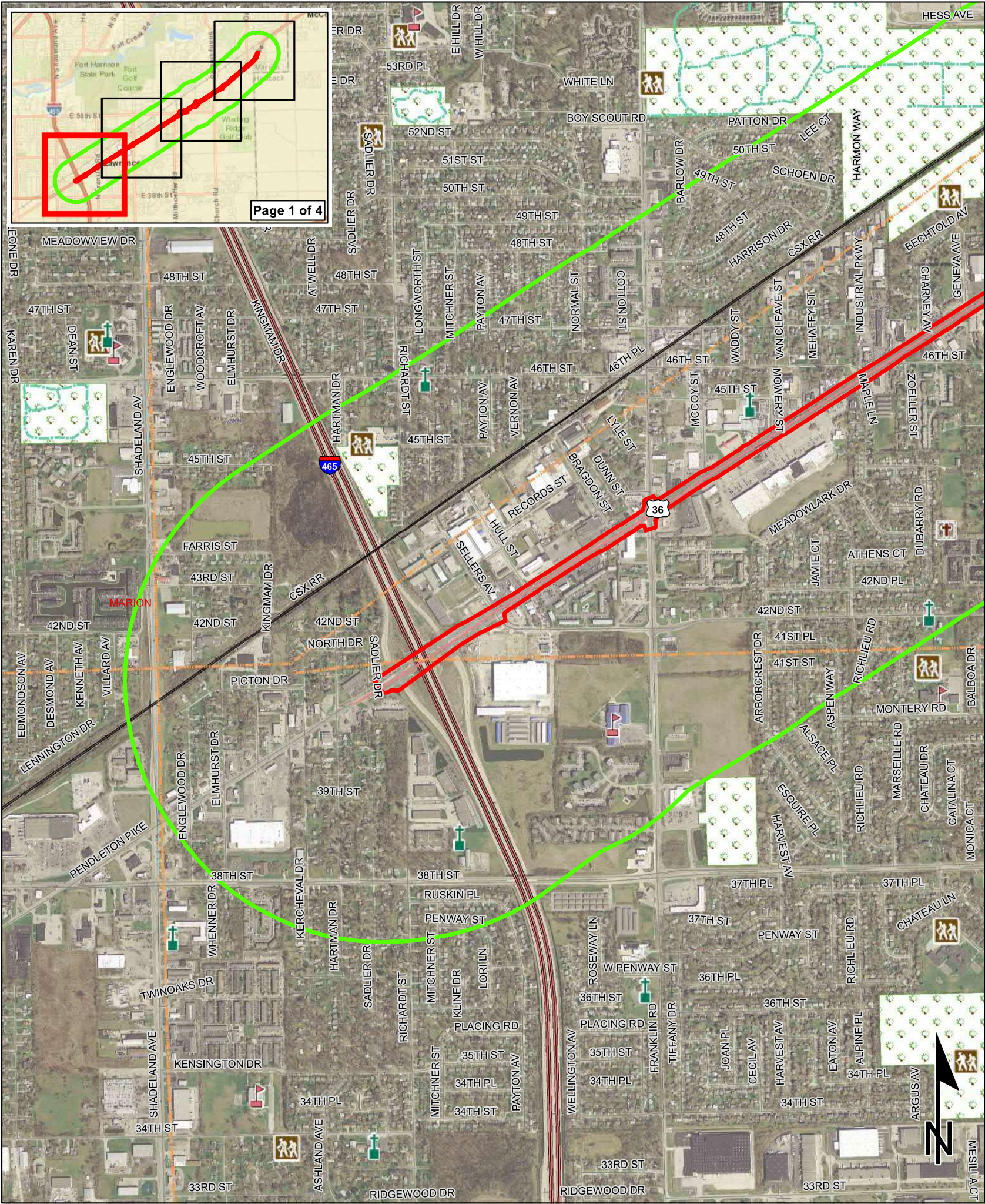


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**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))  
**Map Projection:** UTM Zone 16 N **Map Datum:** NAD83  
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INDIANAPOLIS EAST &  
CUMBERLAND QUADRANGLES  
INDIANA  
7.5 MINUTE SERIES  
(TOPOGRAPHIC)



Red Flag Investigation - Infrastructure  
Pendleton Pike (US 36), from I-465 to 65th Street  
Des. No. 1900157, Access Control  
Marion County, Indiana

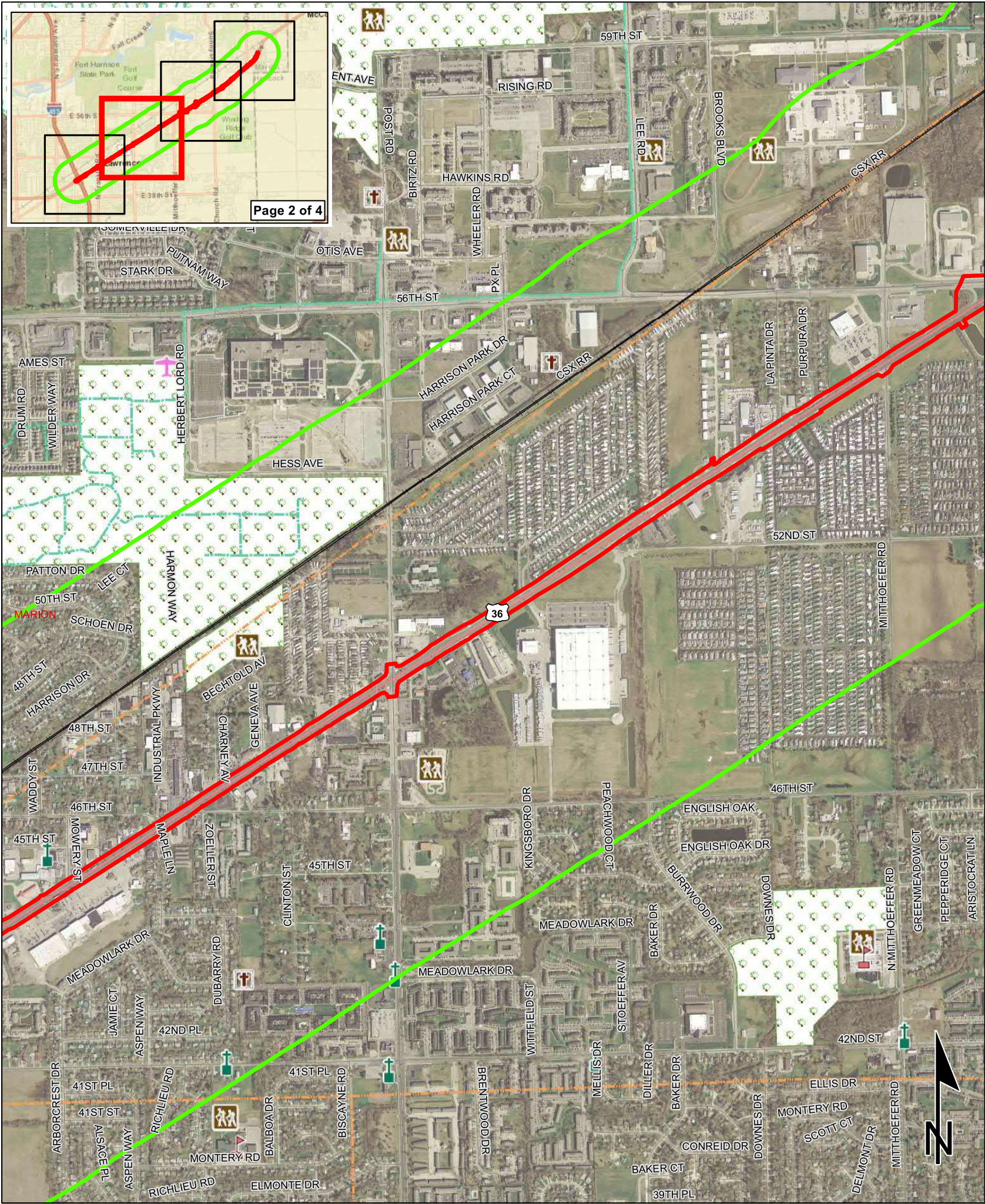


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	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road



Red Flag Investigation - Infrastructure  
Pendleton Pike (US 36), from I-465 to 65th Street  
Des. No. 1900157, Access Control  
Marion County, Indiana

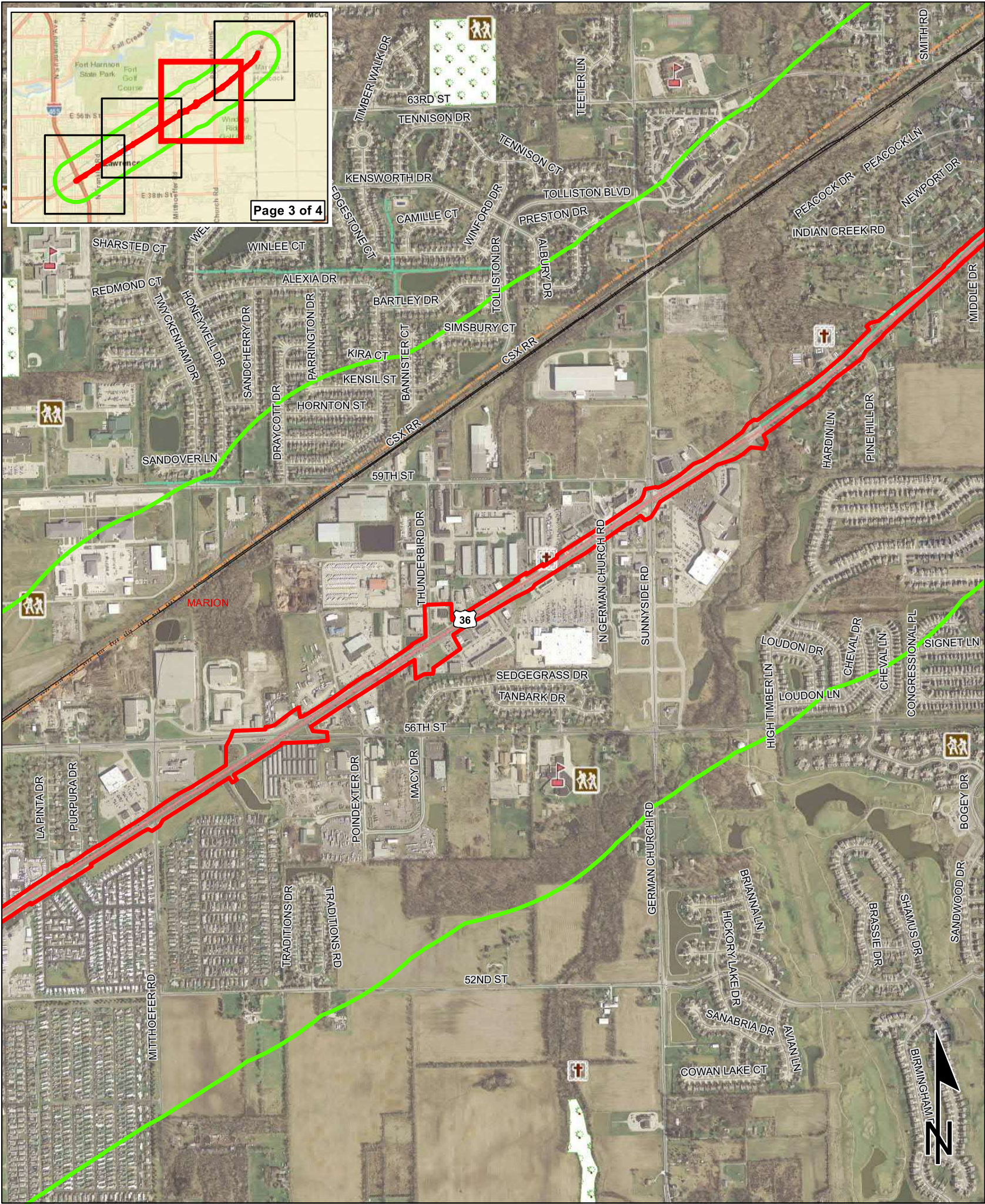


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	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road



Red Flag Investigation - Infrastructure  
Pendleton Pike (US 36), from I-465 to 65th Street  
Des. No. 1900157, Access Control  
Marion County, Indiana



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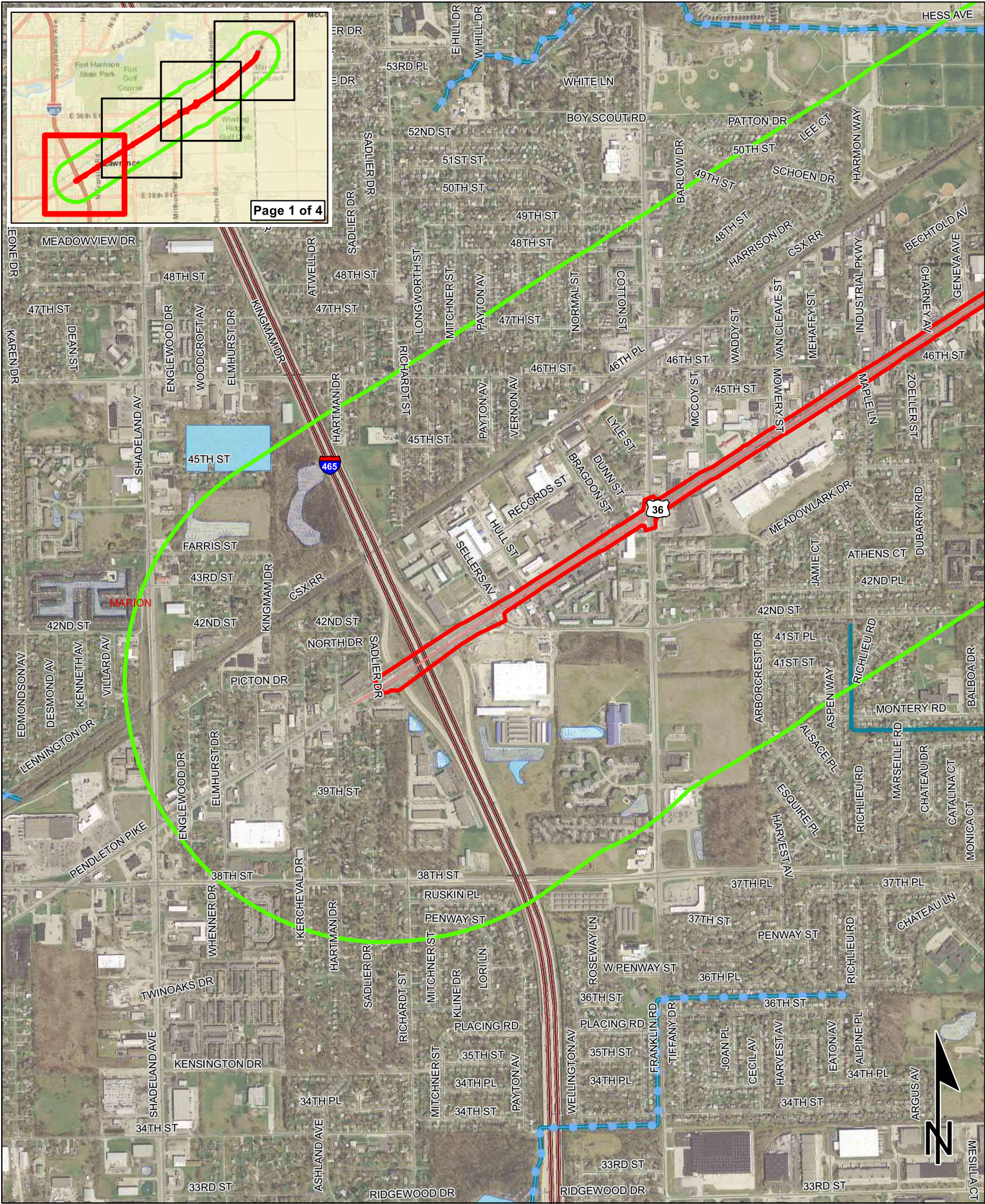
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	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road





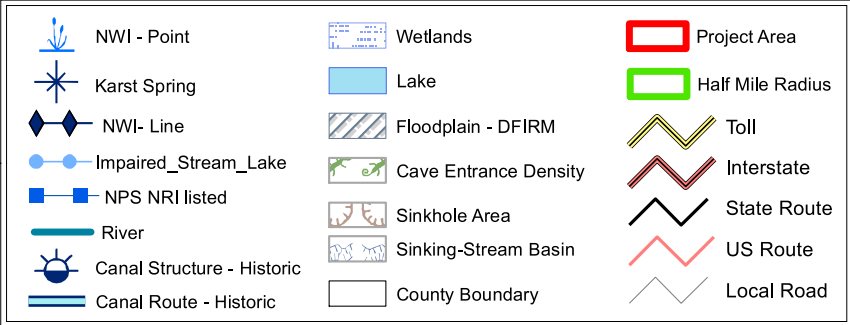


Red Flag Investigation - Water Resources  
Pendleton Pike (US 36), from I-465 to 65th Street  
Des. No. 1900157, Access Control  
Marion County, Indiana



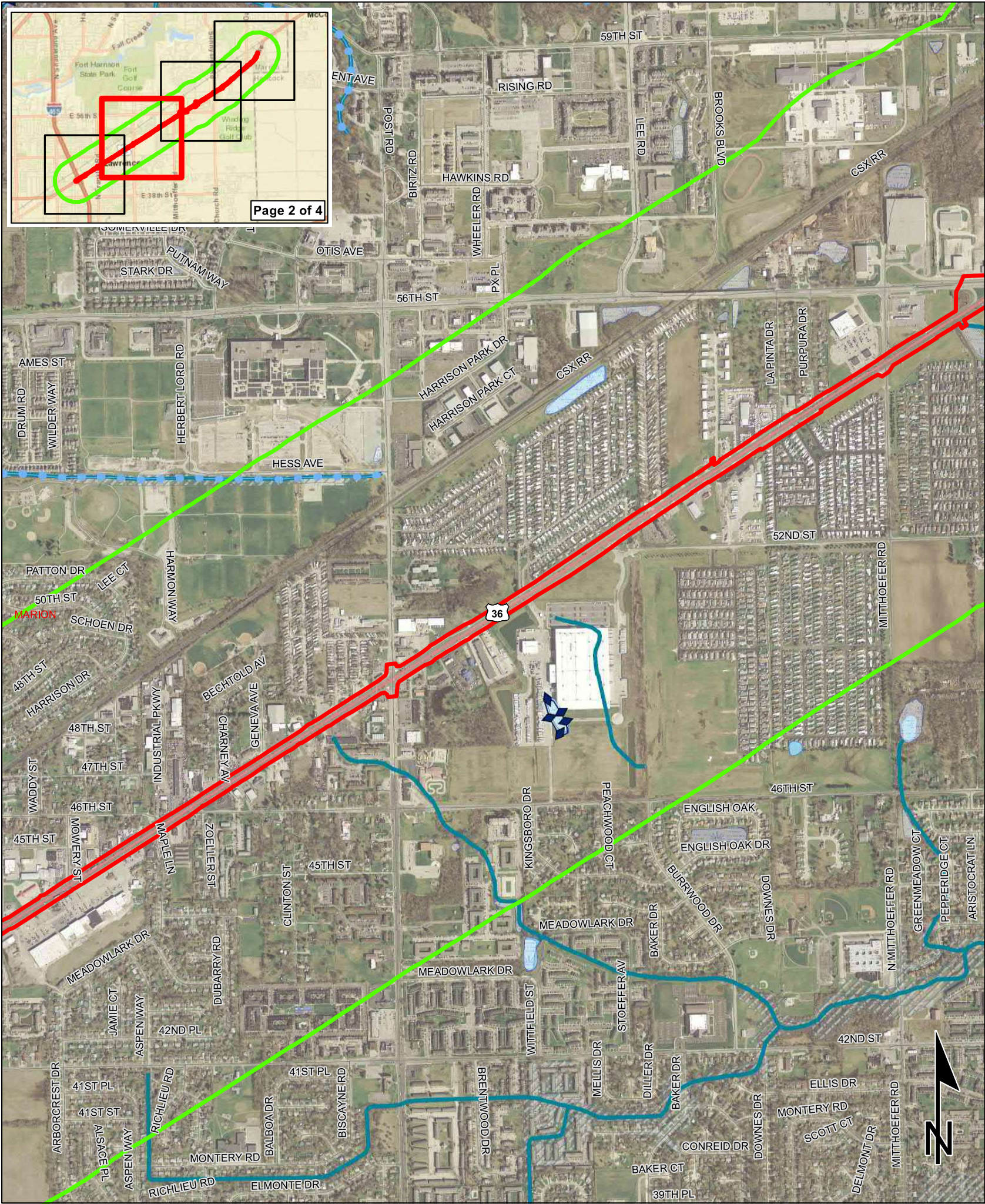
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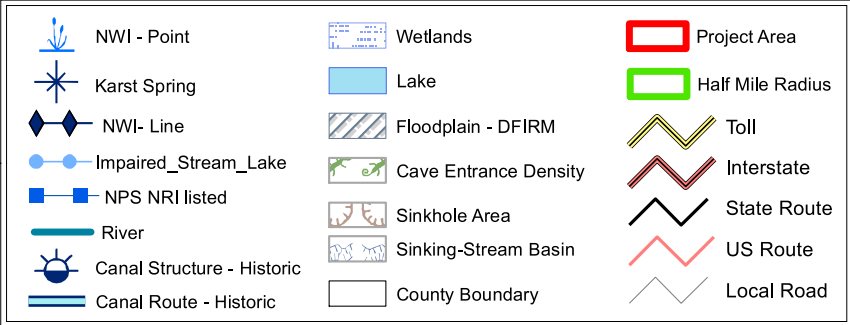


Red Flag Investigation - Water Resources  
Pendleton Pike (US 36), from I-465 to 65th Street  
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Marion County, Indiana



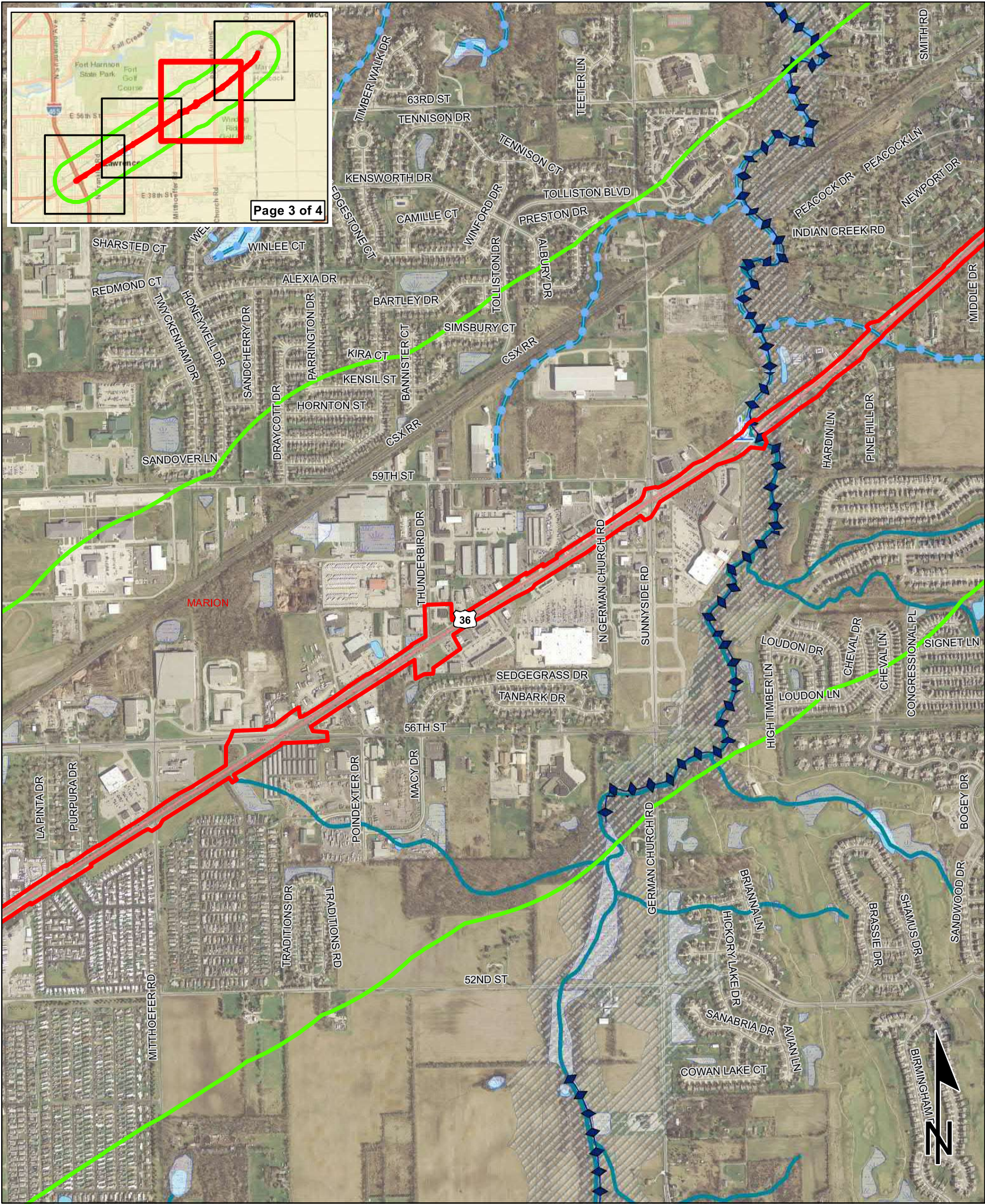
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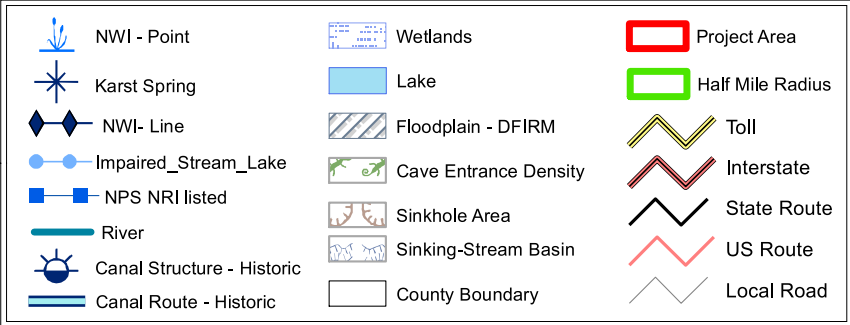


Red Flag Investigation - Water Resources  
Pendleton Pike (US 36), from I-465 to 65th Street  
Des. No. 1900157, Access Control  
Marion County, Indiana



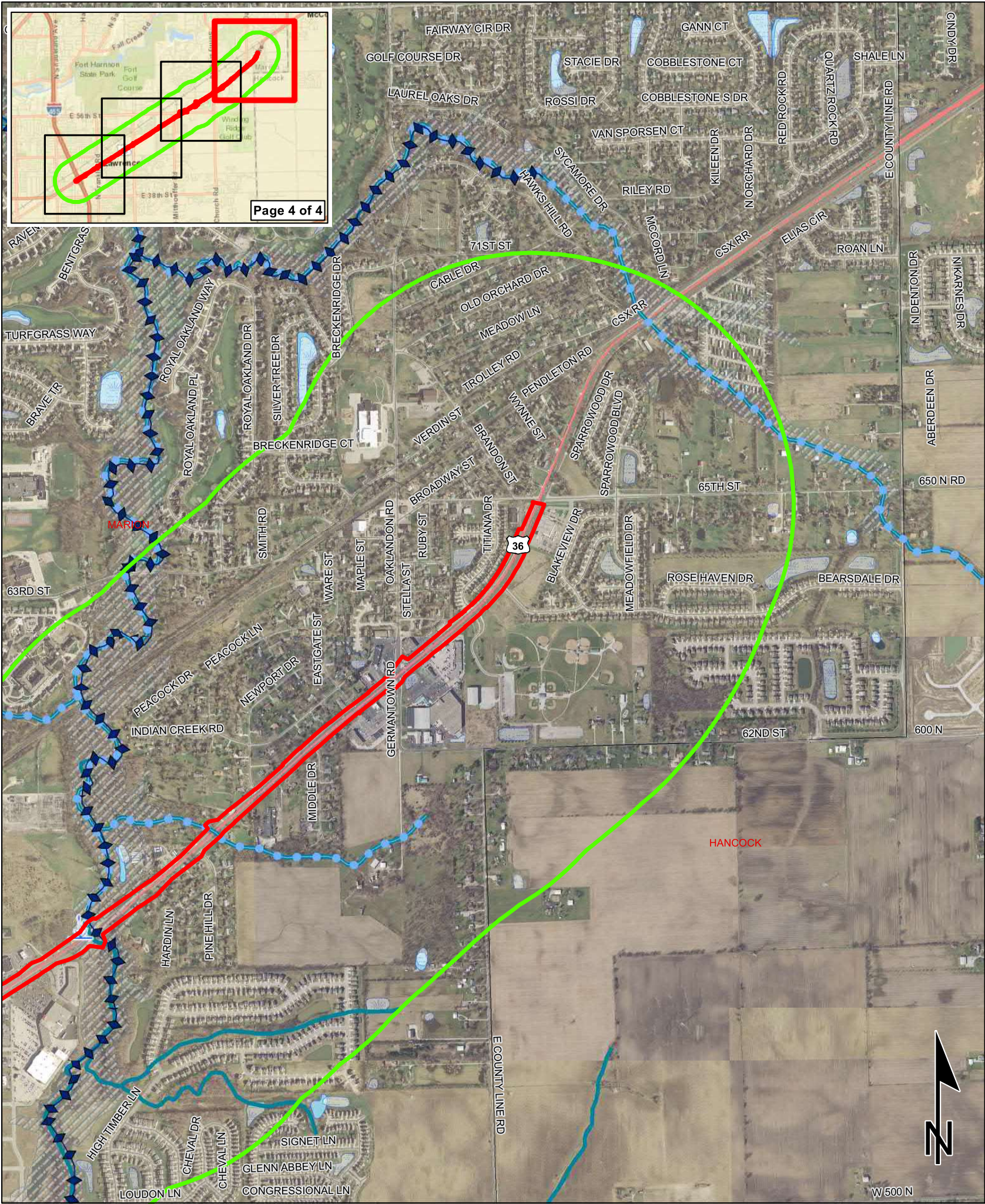
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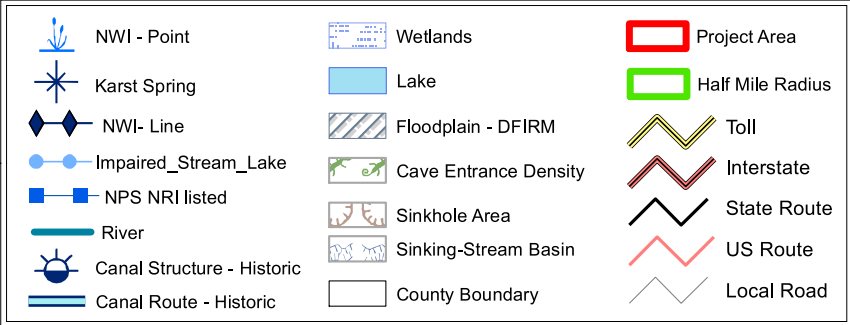


Red Flag Investigation - Water Resources  
Pendleton Pike (US 36), from I-465 to 65th Street  
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Marion County, Indiana



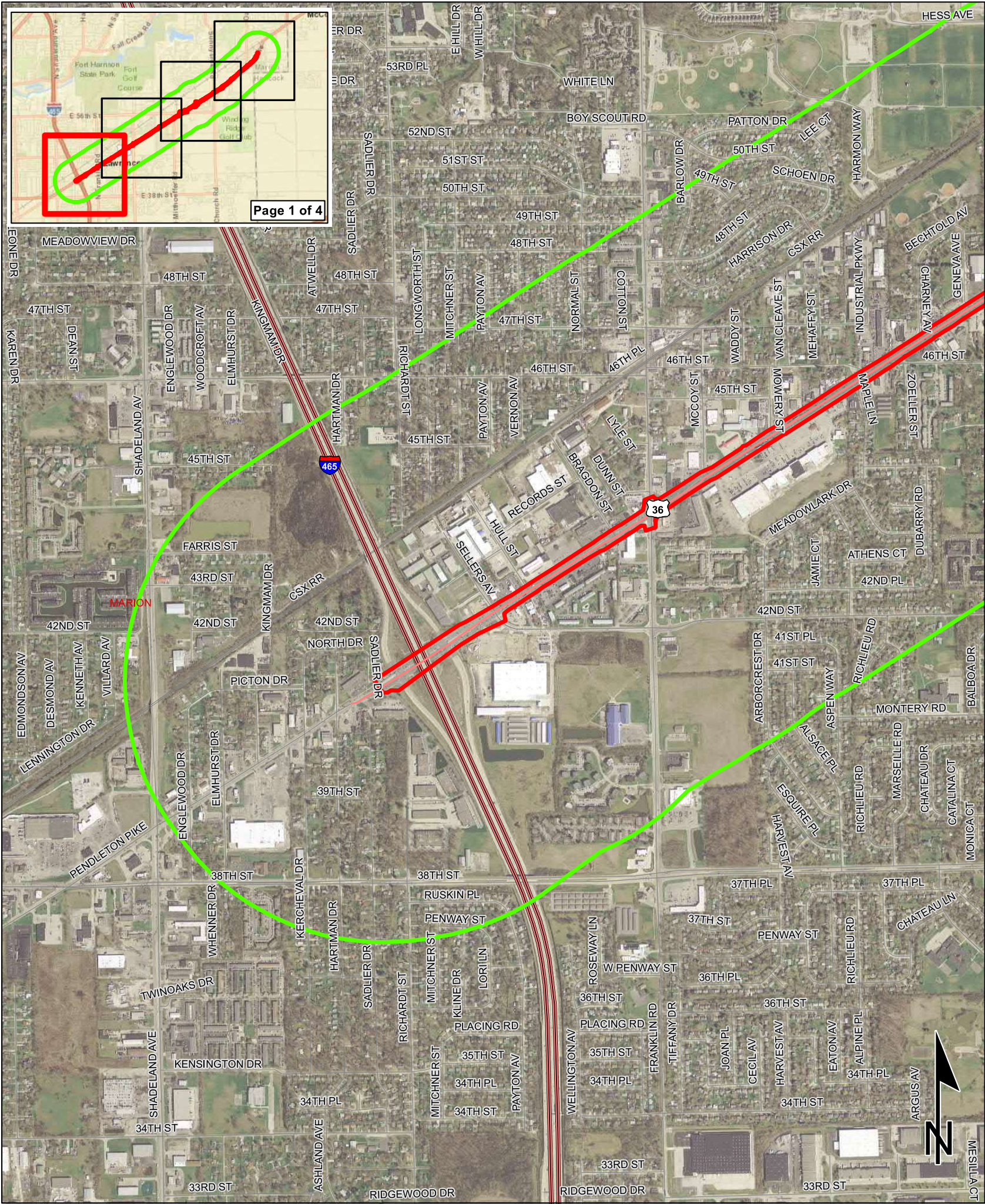
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Red Flag Investigation - Mining/Mineral Exploration  
Pendleton Pike (US 36), from I-465 to 65th Street  
Des. No. 1900157, Access Control  
Marion County, Indiana



0.25 0.125 0 0.25 Miles

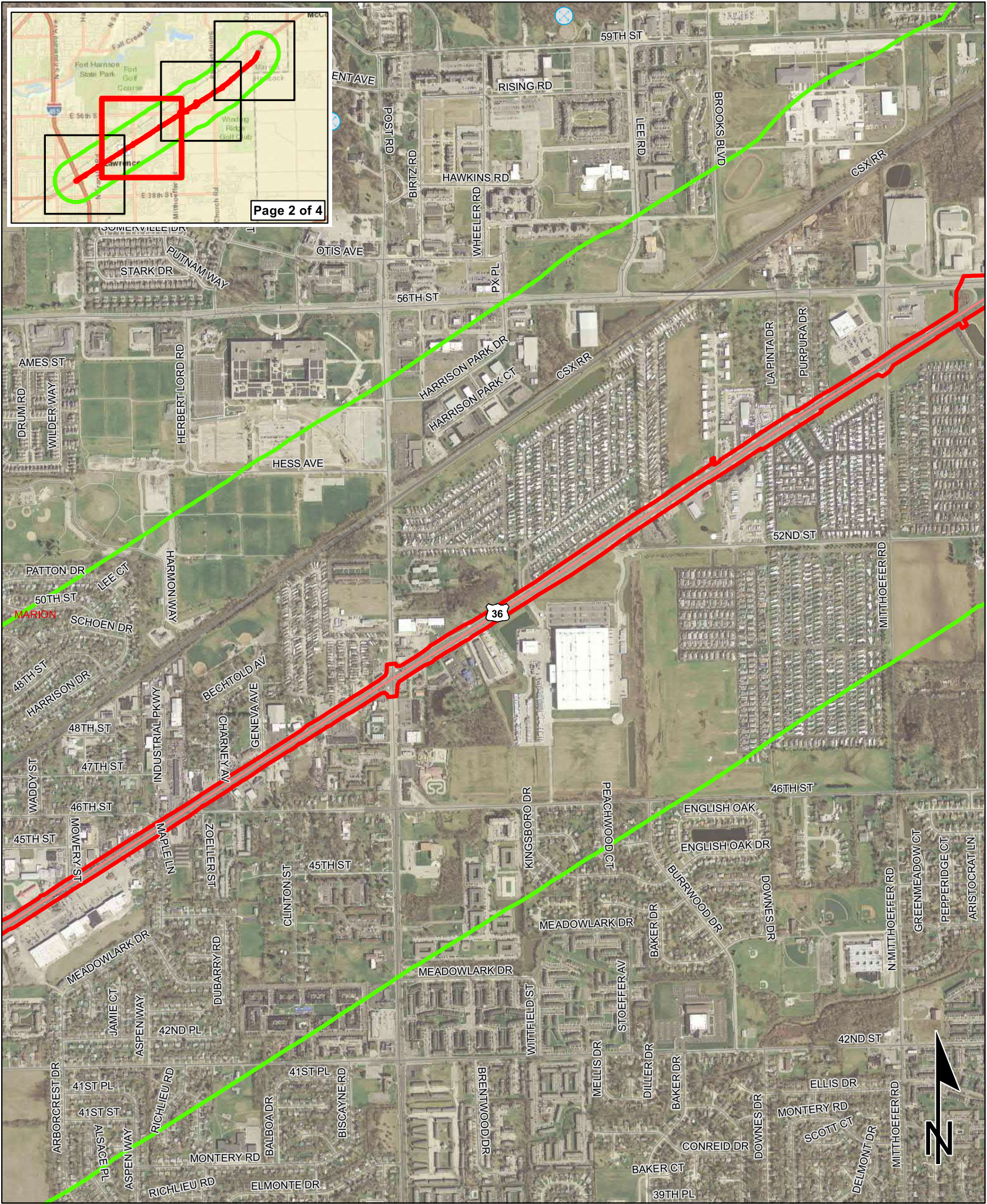
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**Map Projection:** UTM Zone 16 N **Map Datum:** NAD83

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Oil and Gas Wells	County Boundary	Toll
Mineral Resources	Project Area	Interstate
Mine - Surface	Half Mile Radius	State Route
Mine - Underground		US Route
		Local Road



Red Flag Investigation - Mining/Mineral Exploration  
Pendleton Pike (US 36), from I-465 to 65th Street  
Des. No. 1900157, Access Control  
Marion County, Indiana



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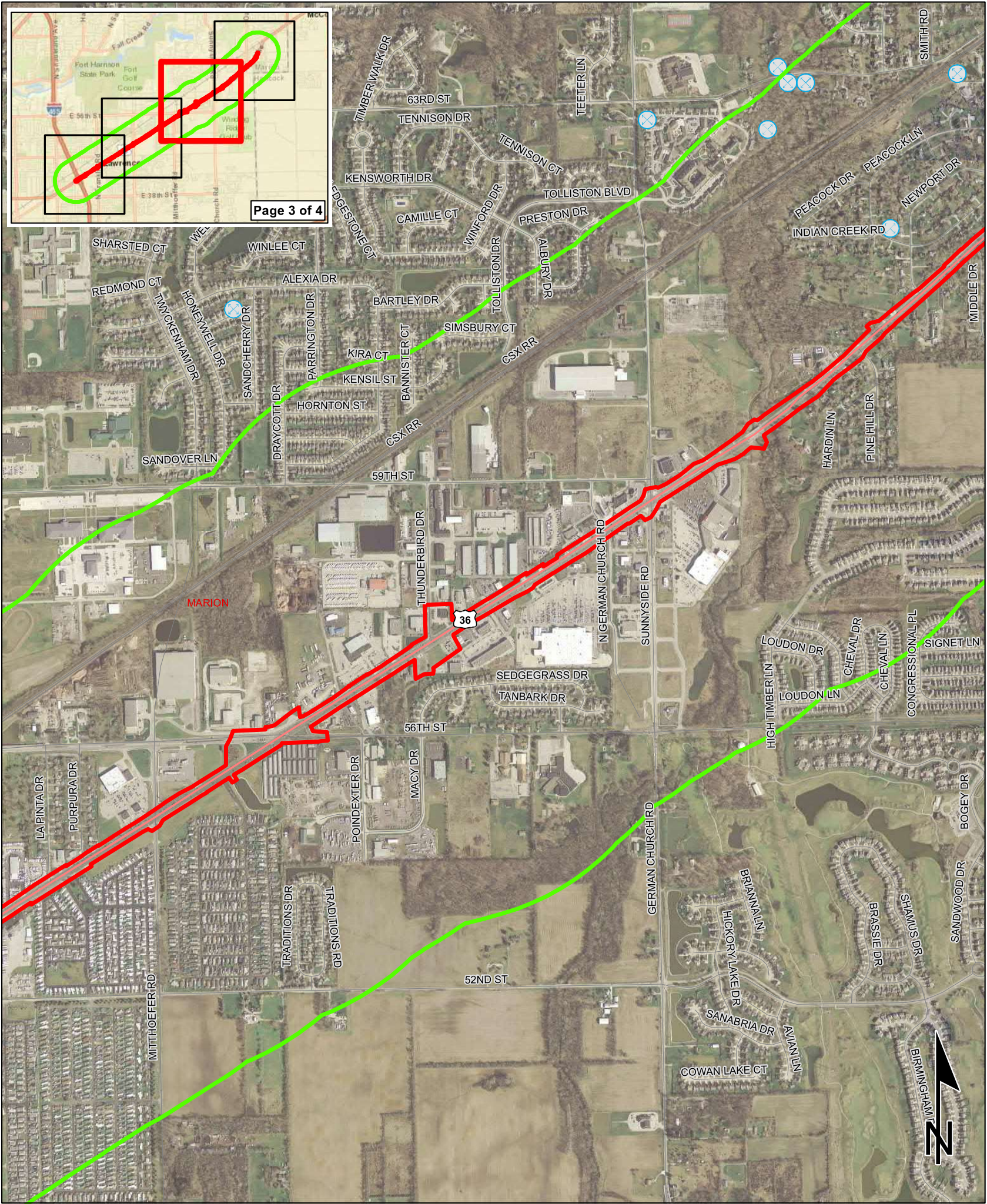
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	Oil and Gas Wells		County Boundary		Toll
	Mineral Resources		Project Area		Interstate
	Mine - Surface		Half Mile Radius		State Route
	Mine - Underground				US Route
					Local Road



Red Flag Investigation - Mining/Mineral Exploration  
Pendleton Pike (US 36), from I-465 to 65th Street  
Des. No. 1900157, Access Control  
Marion County, Indiana



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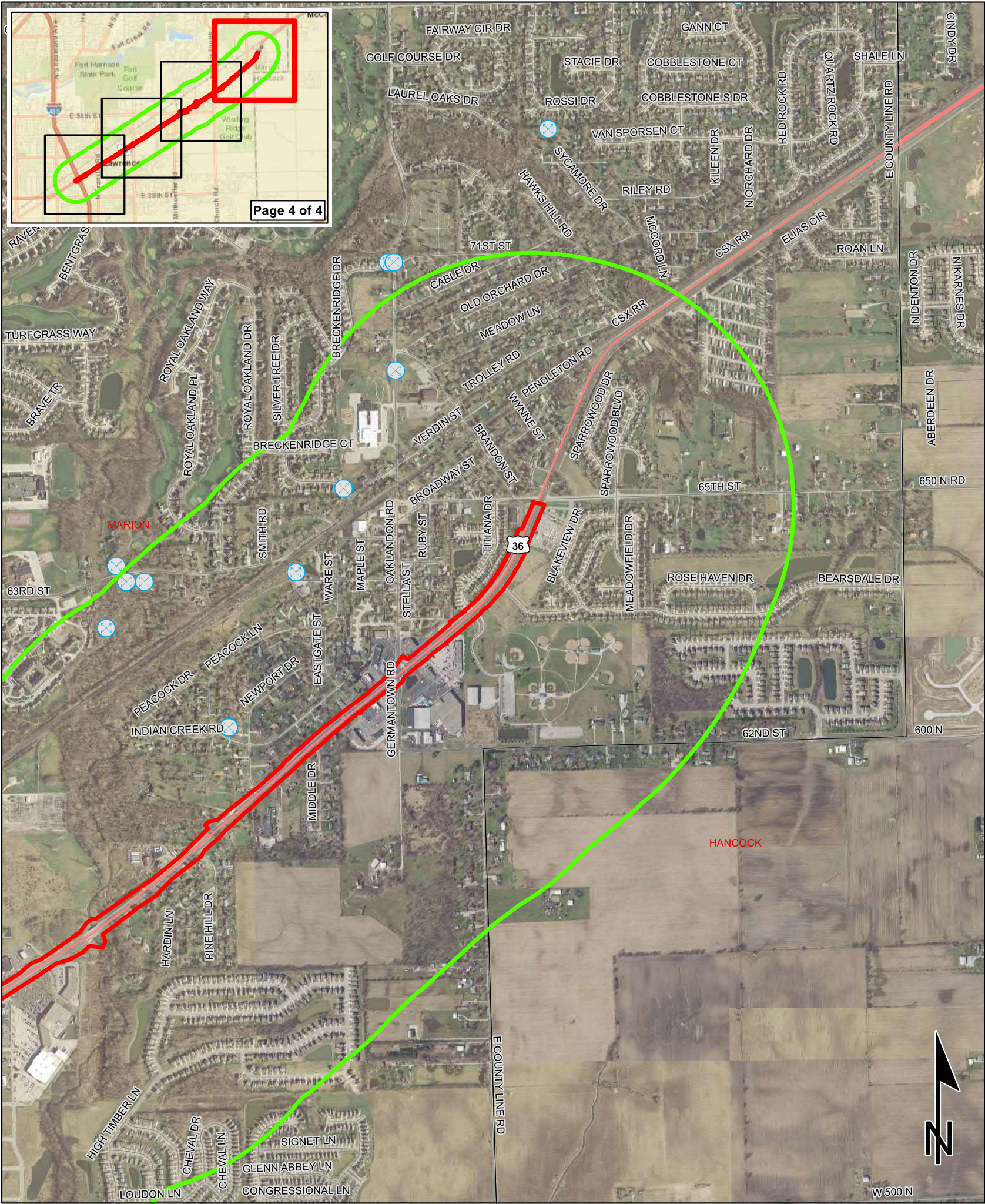
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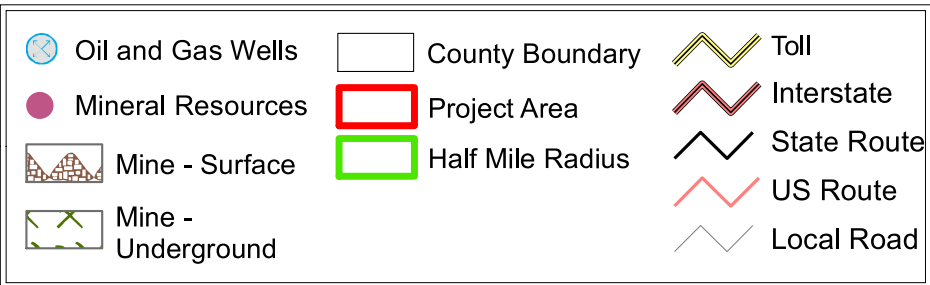
	Oil and Gas Wells		County Boundary		Toll
	Mineral Resources		Project Area		Interstate
	Mine - Surface		Half Mile Radius		State Route
	Mine - Underground				US Route
					Local Road



Red Flag Investigation - Mining/Mineral Exploration  
Pendleton Pike (US 36), from I-465 to 65th Street  
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Marion County, Indiana

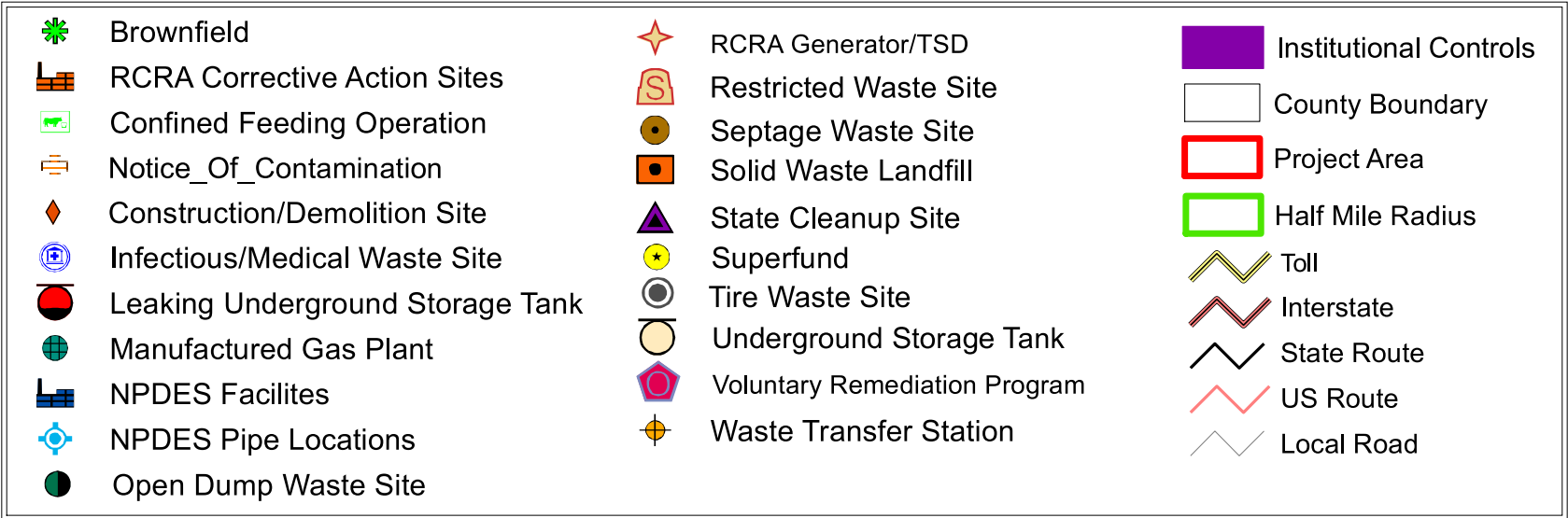
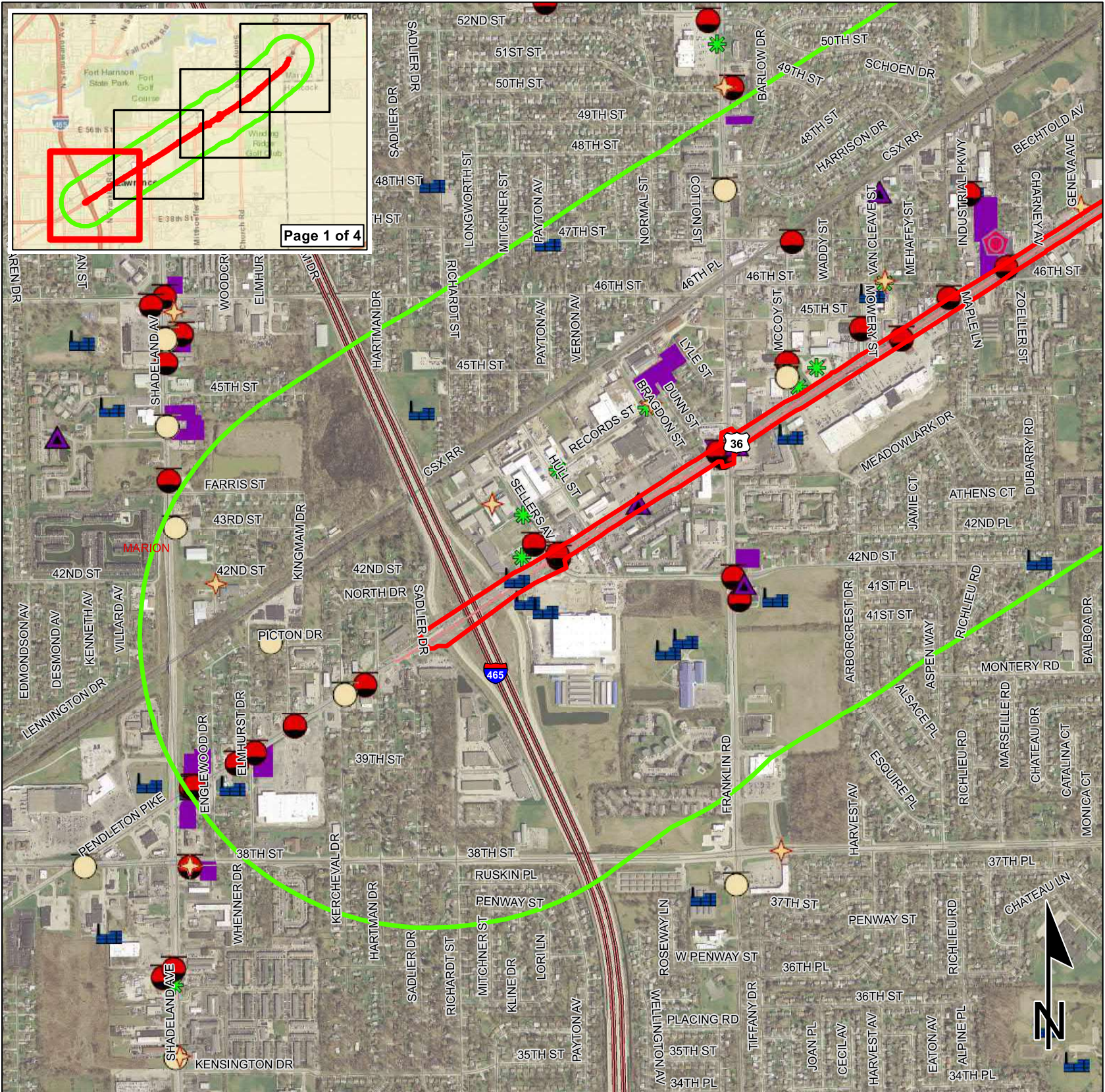


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Red Flag Investigation - Hazardous Material Concerns  
Pendleton Pike (US 36), from I-465 to 65th Street  
Des. No. 1900157, Access Control  
Marion County, Indiana



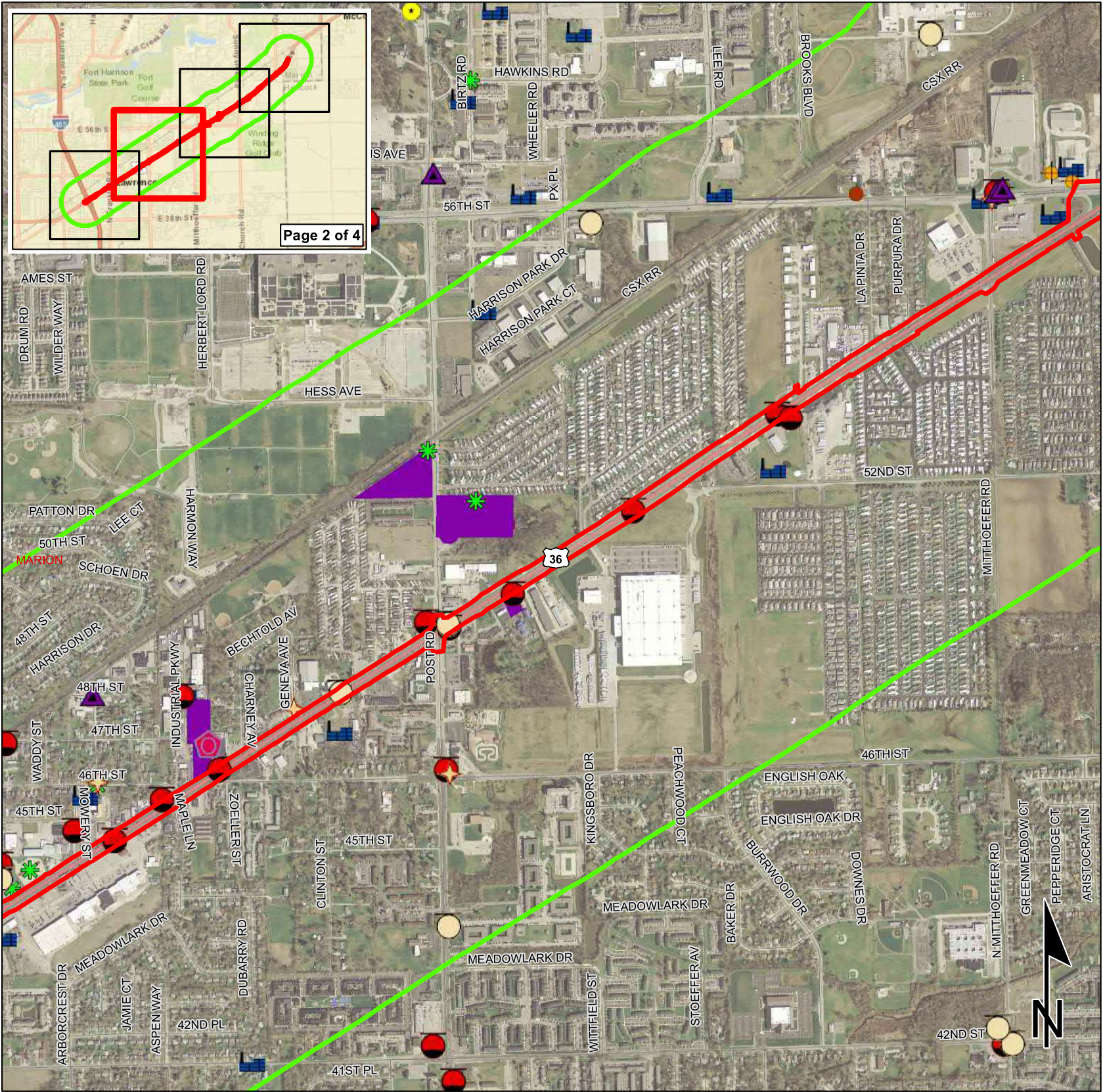
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Red Flag Investigation - Hazardous Material Concerns  
Pendleton Pike (US 36), from I-465 to 65th Street  
Des. No. 1900157, Access Control  
Marion County, Indiana



	Brownfield		RCRA Generator/TSD		Institutional Controls
	RCRA Corrective Action Sites		Restricted Waste Site		County Boundary
	Confined Feeding Operation		Septage Waste Site		Project Area
	Notice_Of_Contamination		Solid Waste Landfill		Half Mile Radius
	Construction/Demolition Site		State Cleanup Site		Toll
	Infectious/Medical Waste Site		Superfund		Interstate
	Leaking Underground Storage Tank		Tire Waste Site		State Route
	Manufactured Gas Plant		Underground Storage Tank		US Route
	NPDES Facilities		Voluntary Remediation Program		Local Road
	NPDES Pipe Locations		Waste Transfer Station		
	Open Dump Waste Site				

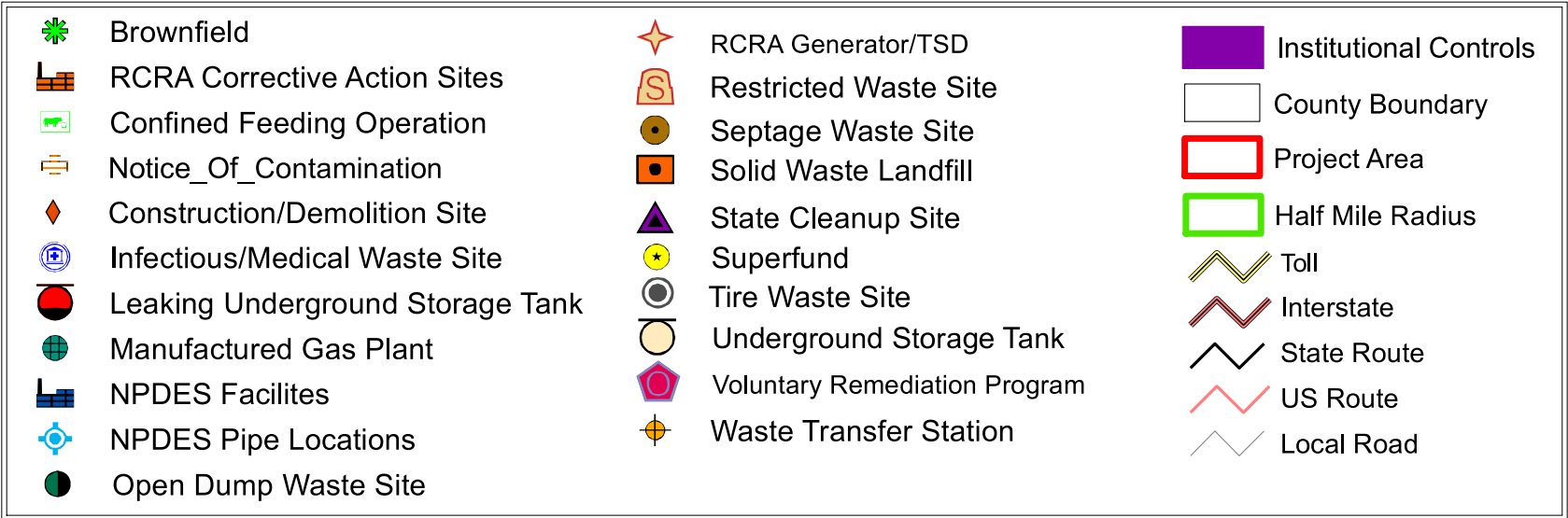
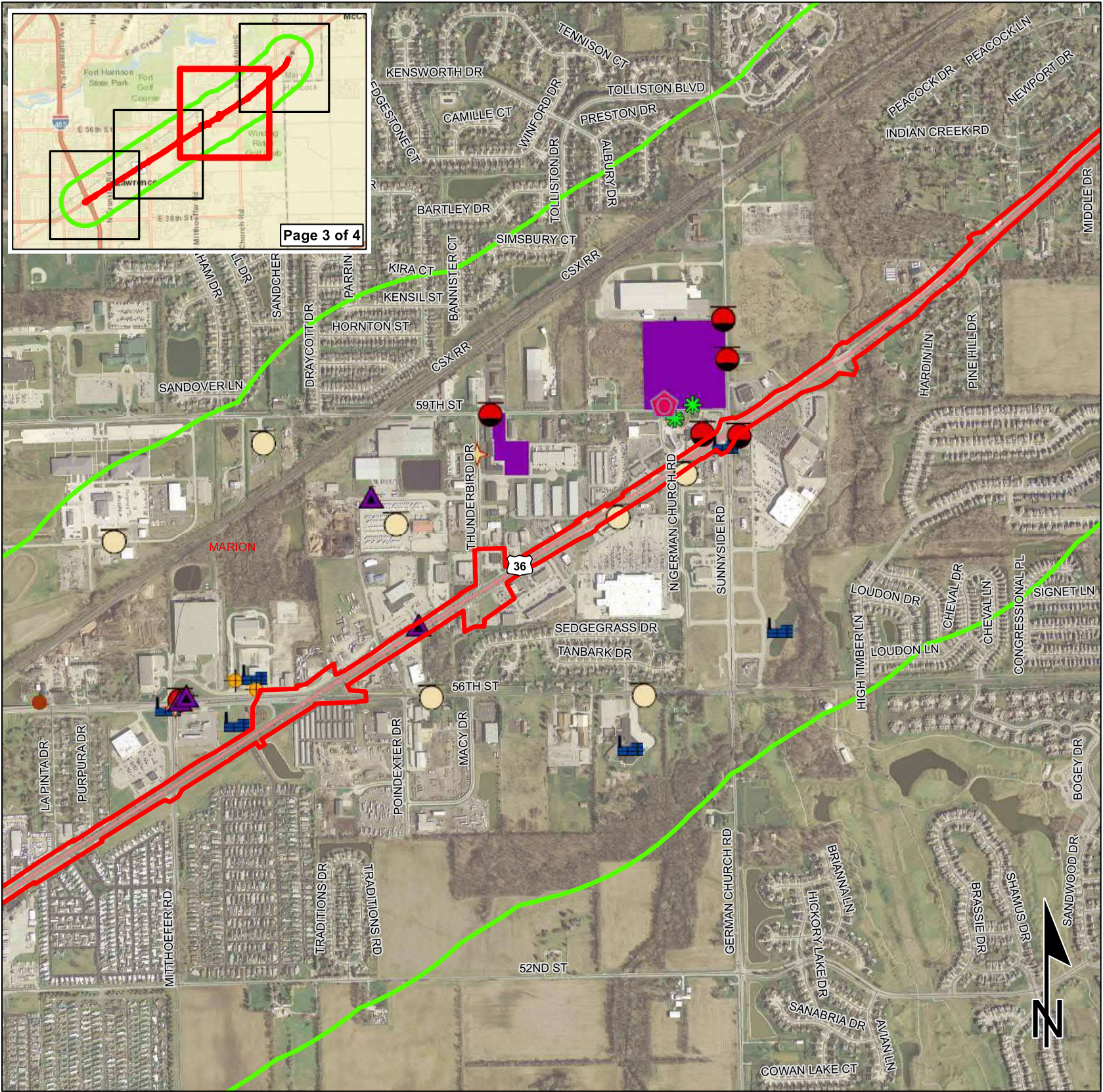
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Red Flag Investigation - Hazardous Material Concerns  
Pendleton Pike (US 36), from I-465 to 65th Street  
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Marion County, Indiana



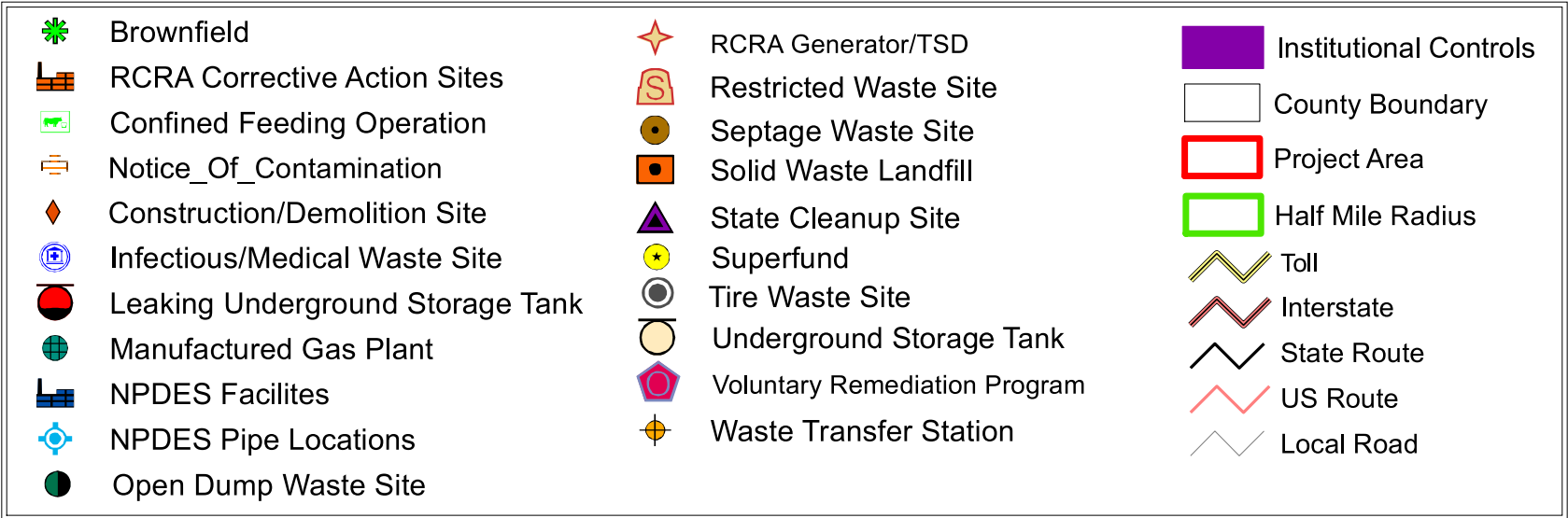
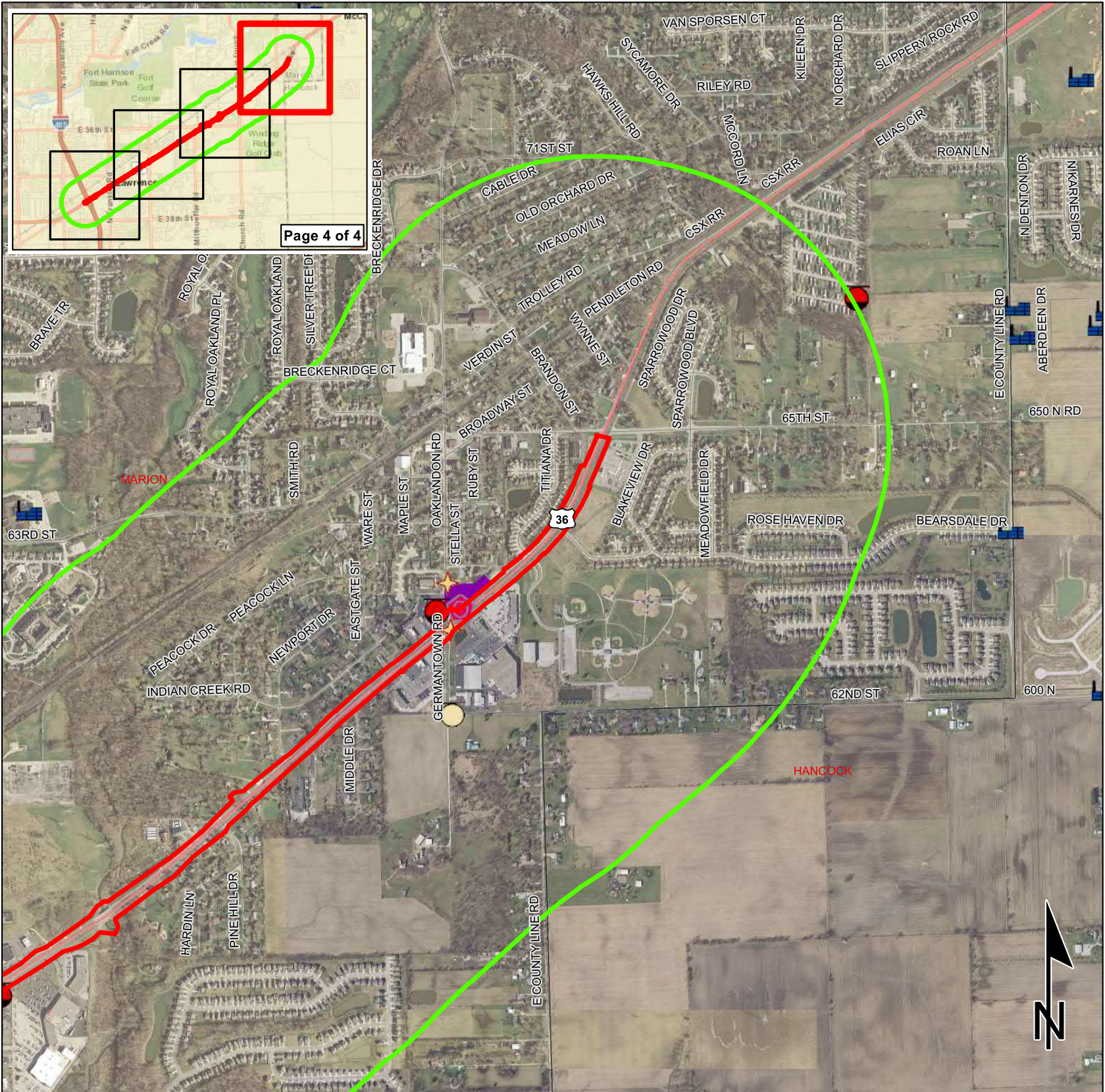
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Red Flag Investigation - Hazardous Material Concerns  
Pendleton Pike (US 36), from I-465 to 65th Street  
Des. No. 1900157, Access Control  
Marion County, Indiana



0.25 0.125 0 0.25 Miles

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## Appendix F

### Water Resources

Item	Appendix Page
Wetland Delineation and Waters of the US Report	F-1 to F-26

**Waters of the US Report  
US 36 (Pendleton Pike) Access Control  
City of Lawrence, Marion County, Indiana  
Des. No. 1900157**

**Field Investigation: August 14, 2020 and October 4, 2021  
Report Completed: May 25, 2022**

## **I. Introduction**

The Indiana Department of Transportation (INDOT) is proposing to proceed with an access control project in the City of Lawrence, Lawrence Township, Marion County, Indiana. Access control would include center raised concrete medians, loons, drainage work, sidewalk, curb ramps and installation of additional traffic signal poles. The project would also include converting the 3-leg intersection at US 36 and Thunderbird to a 4-leg intersection. The investigation for Waters of the US (WOTUS) only covered the areas that extend outside of existing pavement. The purpose of this investigation was to identify wetlands and waterways within and adjacent to the investigation area. A routine wetland determination, per the 1987 Corps of Engineers Wetland Delineation Manual (Y-87-1) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0) was conducted. This report details the findings of the investigation.

<b>Project Owner</b>	<b>Consultant</b>
Indiana Department of Transportation	CHA Consulting, Inc.
Greenfield District, 32 South Broadway	201 North Illinois Street, Suite 800
Greenfield, IN 46140	Indianapolis, IN 46204
Contact: Jennifer Curry	Contact: Summer Elmore, PWS
<a href="mailto:Jcurry1@indot.in.gov">Jcurry1@indot.in.gov</a>	<a href="mailto:selmore@chacompanies.com">selmore@chacompanies.com</a>
317-503-8207	317-780-7182

The project is located along United States (US) 36 (Pendleton Pike) from I-465 to 65<sup>th</sup> Street in the City of Lawrence, Indiana (attached, State Location Map). The investigation area is 5.53 miles long, centered on 39.848248° North and -86.002087° West. Specifically, the project is located in Sections 3, 4, 7, 8, 9 and 18, Township 16 North, Range 5 East: Section 13, Township 16 North, Range 4 East: Section 33 and 34, Township 17 North, Range 5 East, as shown on the McCordsville, Cumberland, and Indianapolis East, Indiana United States Geological Survey (USGS) 7.5 Minute Quadrangles (attached, USGS Project Location Map).

## **II. Existing Data**

### *7.5 Minute USGS Quadrangle Maps and Watershed*

The USGS map was reviewed to determine the topography and drainage patterns within the investigation area. The map indicates that the investigation area and surrounding terrain is relatively flat with the elevation ranging from approximately 825 to 875 feet. There are three (3) streams in the investigation area, one (1) blue line perennial stream, Indian Creek, and two (2) intermittent streams, Billings Creek and Mock Creek.

Drainage basins are divided into hydrologic units by the USGS based on major river systems. The entire investigation area is within the 8-digit Hydrologic Unit Code (HUC); 05120201, Upper White Watershed. See Table 1 below for the 12-digit watershed numbers and names within the investigation area.

Table 1. HUC-12 Watershed Table

<b>12- Digit HUC Number</b>	<b>Name of Watershed</b>
051202011201	Pogues Run-White River
051202010904	Devon Creek-Fall Creek
051202010902	Indian Lake-Indian Creek

National Wetland Inventory (NWI) Map

The US Fish and Wildlife Service (USFWS) NWI maps identify potential wetlands based on high-level imagery interpretation. The wetlands are then classified by type utilizing the Cowardin classification system. The classification system provides information on wetland vegetation type, water regime, and any relevant alterations. This level of mapping does not determine regulatory boundaries. The NWI map was evaluated for the presence of potential jurisdictional wetlands within the investigation area (attached, NWI Wetlands Map). There are five (5) NWI wetlands located within or adjacent to the investigation area. Three (3) NWI wetlands are mapped within the investigation area. One (1) NWI is mapped adjacent to the investigation area in the southwest quadrant of the US 36 and 56<sup>th</sup> Street intersection, identified as a PUBGx. One (1) NWI wetland is located within the northwest quadrant of the US 36 and Thunderbird Road intersection, and it is identified as a palustrine, freshwater pond with an unconsolidated bottom that is intermittently exposed and was excavated (PUBGx). One (1) NWI wetland is located within the investigation area in the southeast quadrant of the US 36 and Oaklandon Drive intersection and is identified as a PUBGx.

County Soil Survey Map

The Natural Resources Conservation Service (NRCS) Web Soil Survey was reviewed to determine soil classification within the investigation area (attached, NRCS Soils Map). Twelve (12) soil types were identified within the investigation area (Table 2). One (1) soil type was identified as hydric, Brookston silty clay loam soils, 0 to 2 percent slopes, poorly drained, (YbvA).

Table 2. Soil Summary

Soil Type	Symb ol	Drainage Rating	Hydrology	Hydric Rating	Hydric
Gessie silt loam, 0-2% slope	Ge	Well drained	Frequent flooding	0%	not hydric
Miami silt loam, 2-6% slope, eroded	MmB2	Moderately well drained	None	5%	predominantly non-hydric
Miami silt loam, 6-12% slope, eroded	MmC2	Moderately well drained	None	5%	predominantly non-hydric
Udorthents, cut and filled	Ua	Well drained	None	3%	predominantly non-hydric
Urban land- Brookston complex, 0-2% slope	UbaA	Poorly drained	None	40%	partially hydric
Urban land- Crosby silt loam complex, fine-loamy subsoil, 0-2% slope	UcfA	Somewhat poorly drained	None	5%	predominantly non-hydric
Urban land, Crosby-Treaty complex, fine loamy subsoil, 0-2% slope	UfnA	Somewhat poorly drained	None	15%	predominantly non-hydric
Urban land- Miami silt loam complex, 2-6% slope, eroded	UkbB2	Moderately well drained	None	3%	predominantly non-hydric
Brookston silty clay loam- Urban land complex, 0-2% slope	YbvA	Poorly Drained	Frequent Ponding	65%	Partially hydric
Crosby silt loam, fine-loamy subsoil- Urban land Complex 0-2% slope	YclA	Somewhat poorly drained	None	5%	predominantly non-hydric
Miami silt loam- Urban land complex, 2-6% slope, eroded	YmsB2	Moderately well drained	None	5%	predominantly non-hydric
Miami silt loam- Urban land complex 6-12% slope, eroded	YmsC2	Moderately well drained	None	5%	predominantly non-hydric

### Flood Map

The Flood Insurance Rate Maps (FIRM) and Indiana Department of Natural Resources (IDNR) Best Available Floodzone Mapping for the investigation area were reviewed for the presence of Special Flood Hazard Areas (attached IDNR Floodzone Map). As described by the Federal Emergency Management Agency (FEMA) and IDNR, the project is located within the floodplain of Indian Creek identified as Zone AE. Zone AE is a Special Flood Hazard Area that has a 1% chance of an annual flood. The USGS National Hydrography Dataset (NHD) was reviewed for the presence of features such as rivers, streams, and lakes. Billings Creek, Indian Creek, and Mock Creek were mapped NHD streams within or adjacent to the project area.

## **III. Methodology**

### Waters of the US

Streams that may be considered Waters of the US are documented with supporting evidence of potential jurisdiction. If a stream contains an ordinary high-water mark (OHWM), typically defined as a defined bed and bank, then additional characterization is completed. Identified streams are listed by the name provided on the USGS map, or if not named, is listed as an unnamed tributary (UNT). Connections to the nearest Traditional Navigable Waterway (TNW) are then identified. The USACE makes the final determination of jurisdiction for resources present.

## **IV. Field Reconnaissance**

CHA staff conducted a field investigation on August 14, 2020, and October 4, 2021, to determine the presence of wetlands, Waters of the US, and Waters of the State within the investigation area. Locations of data points,

wetlands, and streams are provided in the attached Photo Location and Data Maps. Photographs of the investigation area and Wetland Delineation Data Forms are included in the attachments. The following provides a brief description of the findings of the field investigation.

### Streams

The project will only occur within existing pavement where the project crosses Indian Creek, (see photo point 29) and Mock Creek; therefore, stream details were not measured. In the location of the Billings Creek NHD line is a stormwater pond, which was observed to be present outside of the investigation area (see photo point 18).

### Non-Jurisdictional Roadside Ditch (RSD)

One (1) RSD, RSD 1, was identified within the investigation area, northeast of the US 36 and Wheel Estates Dr intersection, that is 370 linear feet. This feature was designed along with the roadway to convey storm water. This feature was excavated within an upland area, drains upland waters, and displayed a non-continuous OHWM. Due to these reasons, this feature is not considered a Waters of the U.S.

### Wetlands

There were five (5) identified NWI Wetlands within or adjacent to the investigation area, all five (5) were field verified to be ponds. The ponds were located outside of the investigation area. One (1) wetland was identified within the investigation area. The mowed emergent wetland, Wetland A, is located within a roadside ditch on the north side of US 36, 0.2 mile north of the US 36 and E 56<sup>th</sup> St intersection. Wetland A does not appear to be a jurisdictional Waters of the US, because there were no known or identified Traditional Navigable Waterways (TNW) or tributaries that contribute to Wetland A. Wetland A is a linear wetland of poor quality due to storm water conveyance and regular maintenance activities that is 0.066 acres and is bisected via driveway pipe. The wetland community, hydrology, and topography is identical on both sides of the driveway pipe, therefore it was considered one wetland.

Data Point 2 Dominant species included *Poa palustris* (fowl bluegrass, FACW), *Ludwigia palustris* (marsh seedbox, OBL), and *Eleocharis palustris* (spike rush, OBL). DP-2 meets the Rapid Test for hydrophytic vegetation. At DP-2 the soil exhibited a soil color of 10YR 3/1 from 0 to 3 inches and from 3 to 20 inches was 10 YR 4/1 with redox concentrations of 10YR 5/8 (20%) and a silty clay loam texture. DP-2 meets the Depleted Matrix hydric soil indicator. The hydrology indicators observed included surface water at 1 inch, high water table, saturation, aquatic fauna, and the FAC-Neutral Test, meeting the hydrology criteria. DP-2 meets all three wetland criteria.

Data Point 3 was located in an upland area adjacent to Wetland A. The dominant species at this data point was *Festuca rubra* (Red Fescue, FACU). The soil profile, from 0-7 inches, was a silty loam that had a color of 10YR 4/3 (100%). From 7-20 inches, the soil profile was a loamy clay with gravel that had a color of 10YR 6/2 (100%). No hydric soil indicators were observed at this point. No hydrology indicators were observed at this point. None of the criterion were met; therefore, Data Point 3 was not in a wetland. Table 3 provides a summary of the data points taken within the investigation area.

Table 3. Summary of Data Point

Data Point	Photos	Latitude/ Longitude	Wetland Indicators Observed			Wetland/ Upland
			Hydrophytic Vegetation	Hydric Soils	Hydrology	
DP-1	Data Point-1	39.8500019 -85.9993678	No	Yes	Yes	Upland

Data Point	Photos	Latitude/ Longitude	Wetland Indicators Observed			Wetland/ Upland
			Hydrophytic Vegetation	Hydric Soils	Hydrology	
DP-2	Data Point-2	39.8574181 -85.983725	Yes	Yes	Yes	Wetland
DP-3	Data Point -3	39.8573892 -85.9837558	No	No	No	Upland

## **V. Conclusion**

One (1) wetland, Wetland A, was identified within the study area (Table 4). Wetland A is an isolated wetland from Waters of the US and does not have TNW connectivity. INDOT is requesting that the USACE take jurisdiction.

**Table 4. Summary of Wetland Resource**

Wetland Name	Photos	Latitude/ Longitude	Wetland Type	Acres	Wetland Quality	Waters of the U.S.
Wetland A	Data Point 2 Data Point 2-2 Data Point 2-3 Data Point 3-2	39.8574181 -85.983725	PEM1Bx	0.066	Poor	No*

\*INDOT acknowledges that the wetland would likely not meet the definition of a Waters of the US. However, INDOT is requesting that the USACE take jurisdiction of the wetland

Every effort should be taken to avoid and minimize impacts to these water resources. If impacts are necessary, then mitigation may be required. The final determination of jurisdictional waters is ultimately made by the USACE. This report is our best judgment based on the guidelines set forth by the USACE.

## **VI. Acknowledgement**

This waters determination has been prepared based on the best available information, interpreted in the light of the investigator's training, experience, and professional judgement in conformance with the 1987 Corps of Engineers Wetland Delineation Manual, the appropriate regional supplement, and other appropriate agency guidelines



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5/25/2022

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Date

**VII. References**

U.S. Army Corps of Engineers 2020. National Wetland Plant List, version 3.5. <http://wetland-plants.usace.army.mil/>  
U.S. Army Corps of Engineers Engineer Research and Development Center, Cold Regions Research and  
Engineering Laboratory, Hanover, NH

US Army Corps of Engineers. 2010. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)*, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-10-16.  
Vicksburg, MS: US Army Engineer Research and Development Center.

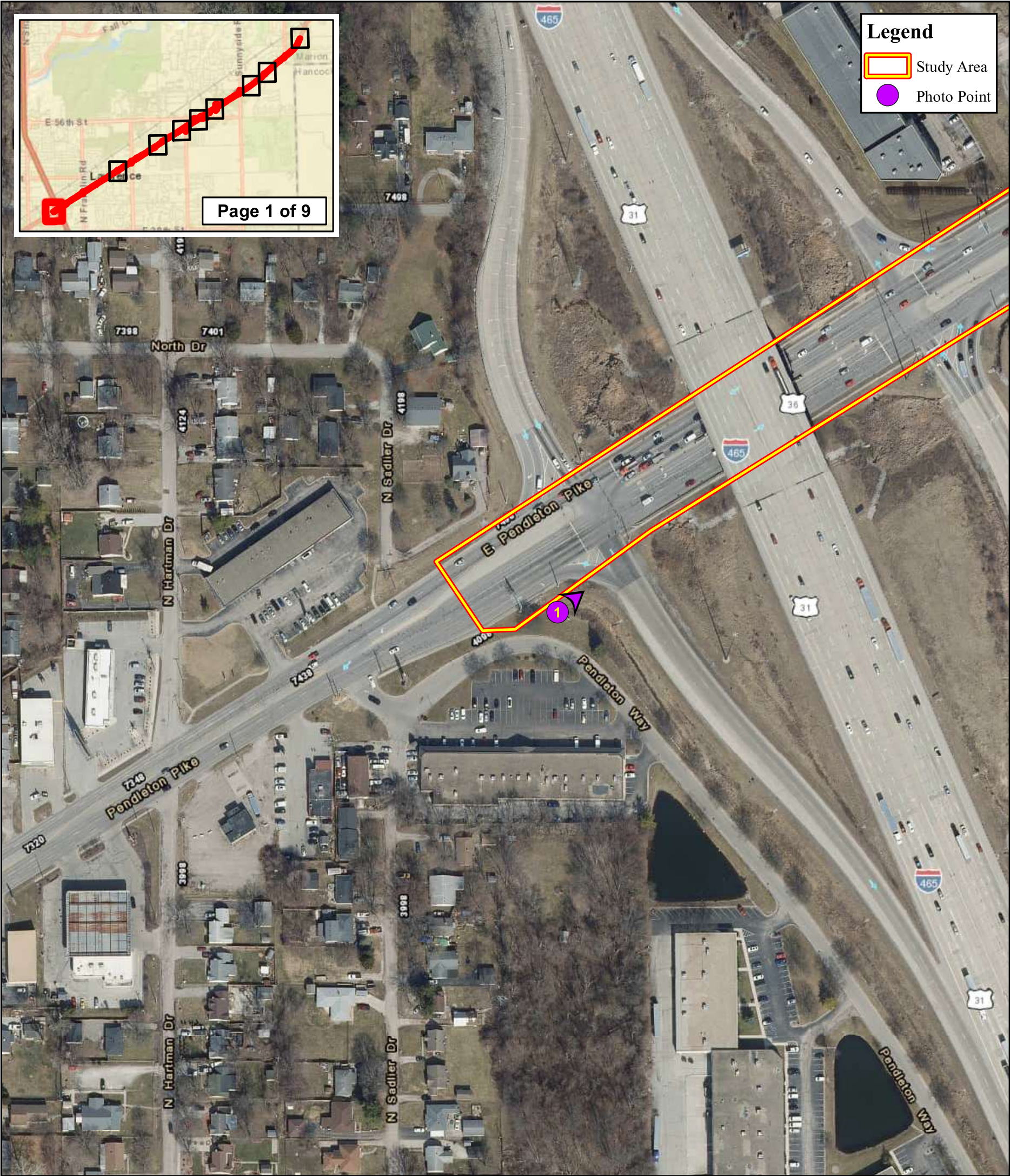
**VIII. List of Attachments**

- Project Location and Water Resource Maps
- Data Point Map
- Photographs
- Wetland Determination Data Forms
- Pre-JD Form

Note: Some attachments were removed in order to condense the document. Project maps can be found in Appendix B of this document. Attached forms can be found in the project file.



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Legend

Study Area

Photo Point

Page 1 of 9



Indiana Department of Transportation



Scale 1" = 200'

DES No.  
1900157

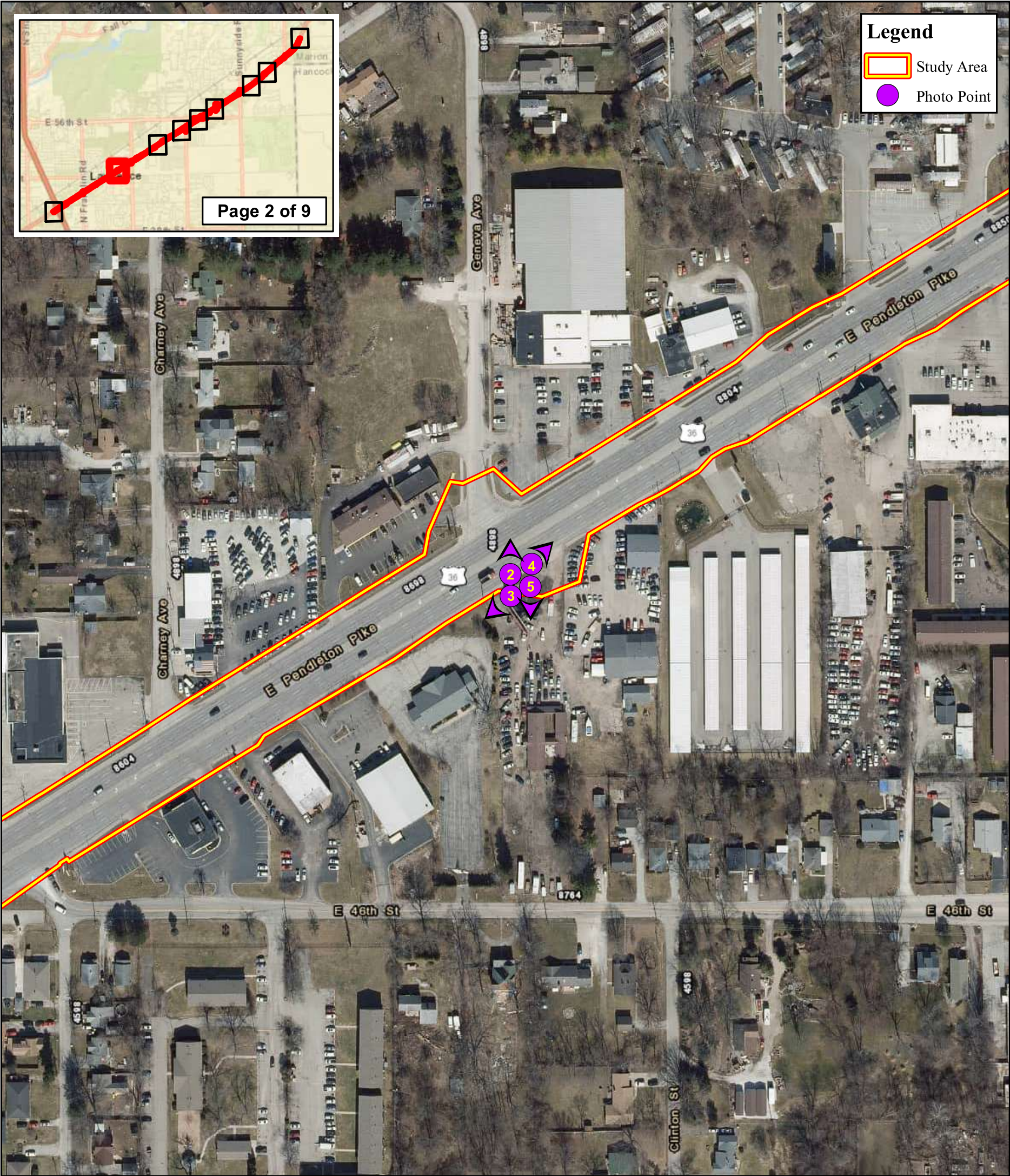
Photo Location Map

US 36 (Pendleton Pike) Access Control  
Marion County, Indiana


Image Courtesy of the IndianaMap  
Photo Date: 2017




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**Legend**

 Study Area

 Photo Point



Indiana Department of Transportation



Scale 1" = 200'

DES No.  
1900157

**Photo Location Map**

US 36 (Pendleton Pike) Access Control  
Marion County, Indiana

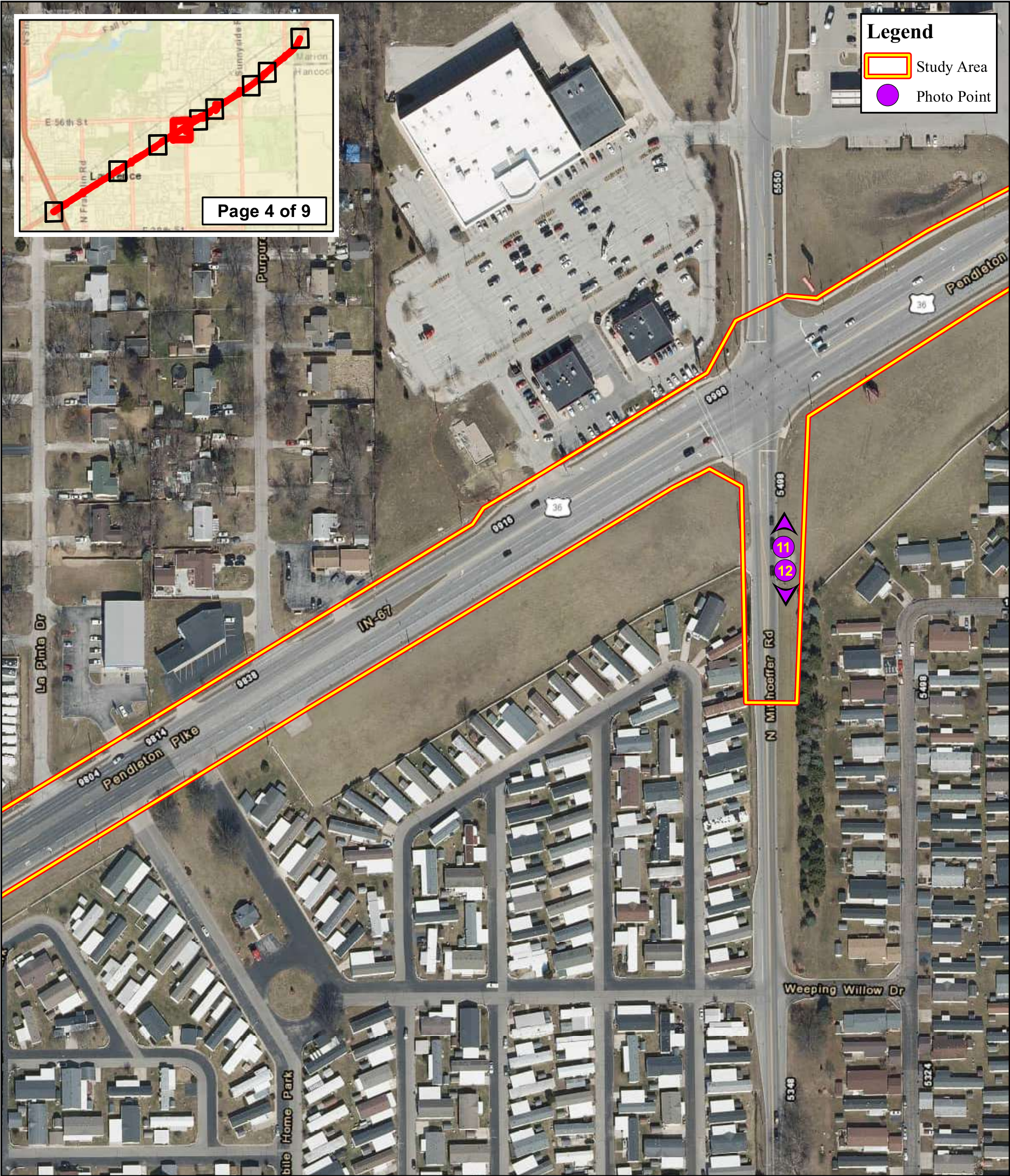
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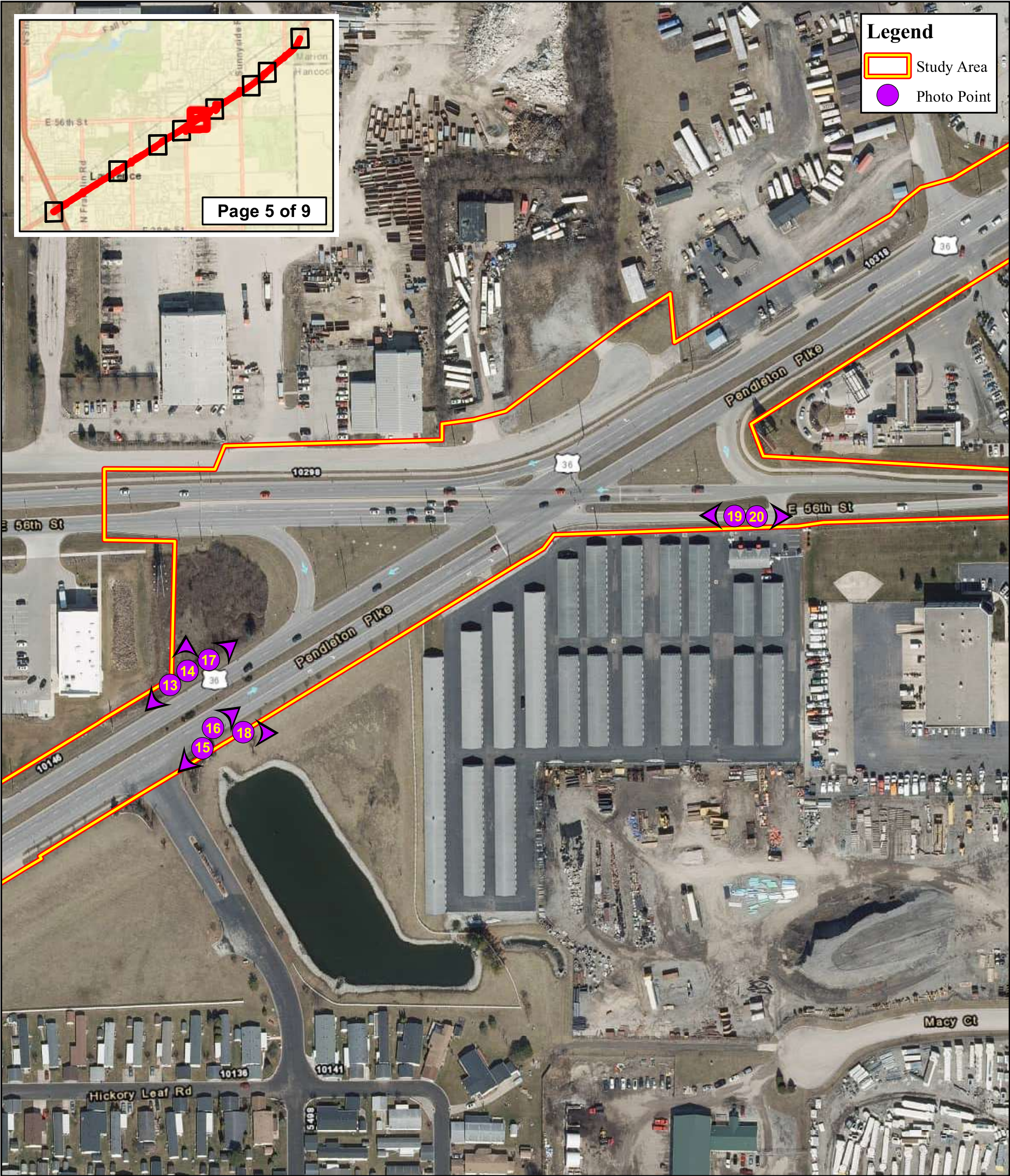
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	Scale 1" = 200'	DES No. 1900157	Image Courtesy of the IndianaMap Photo Date: 2017



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Legend

Study Area

Photo Point



Indiana Department of Transportation



Scale 1" = 200'

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1900157

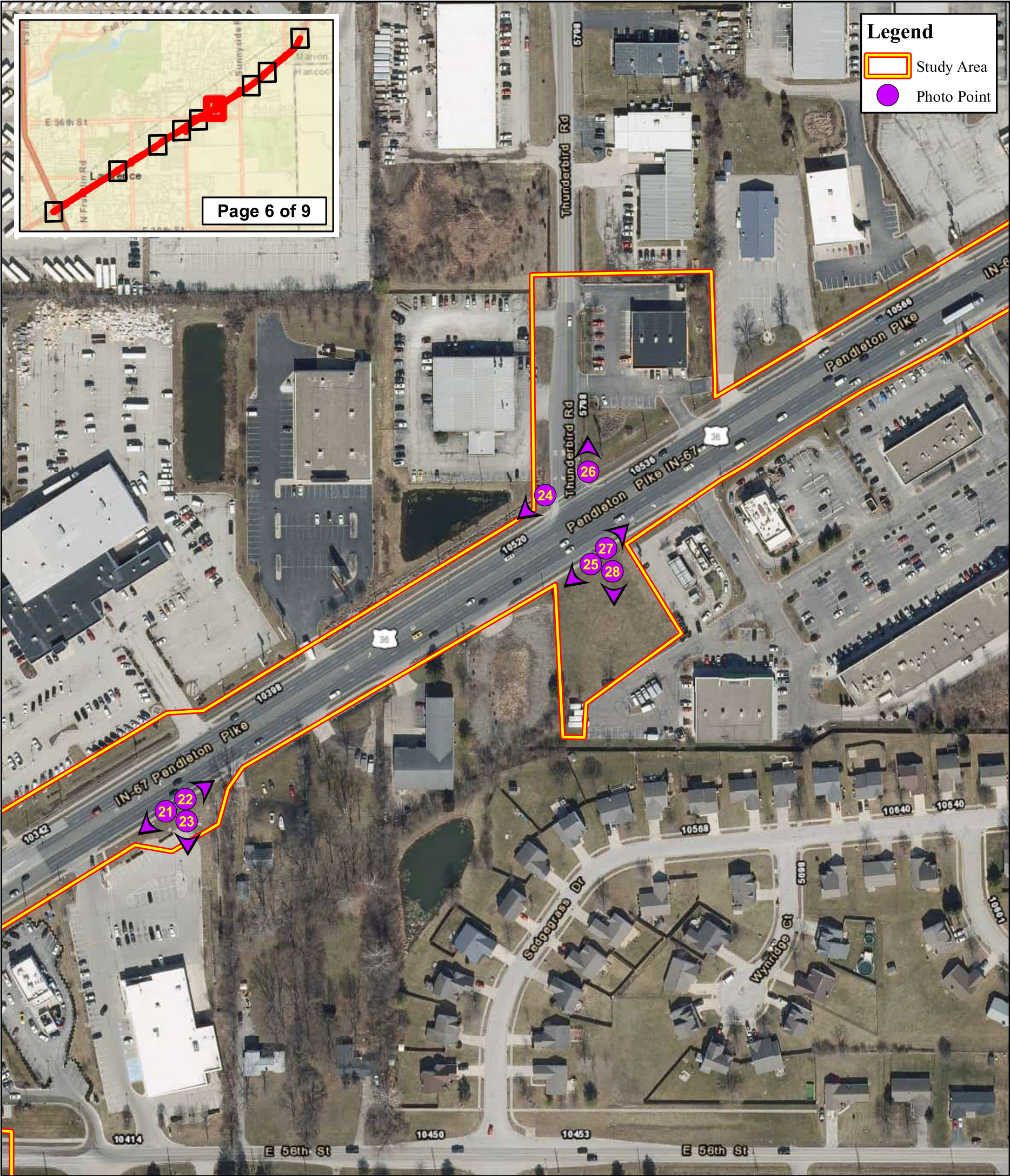
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US 36 (Pendleton Pike) Access Control  
Marion County, Indiana

Image Courtesy of the IndianaMap  
Photo Date: 2017



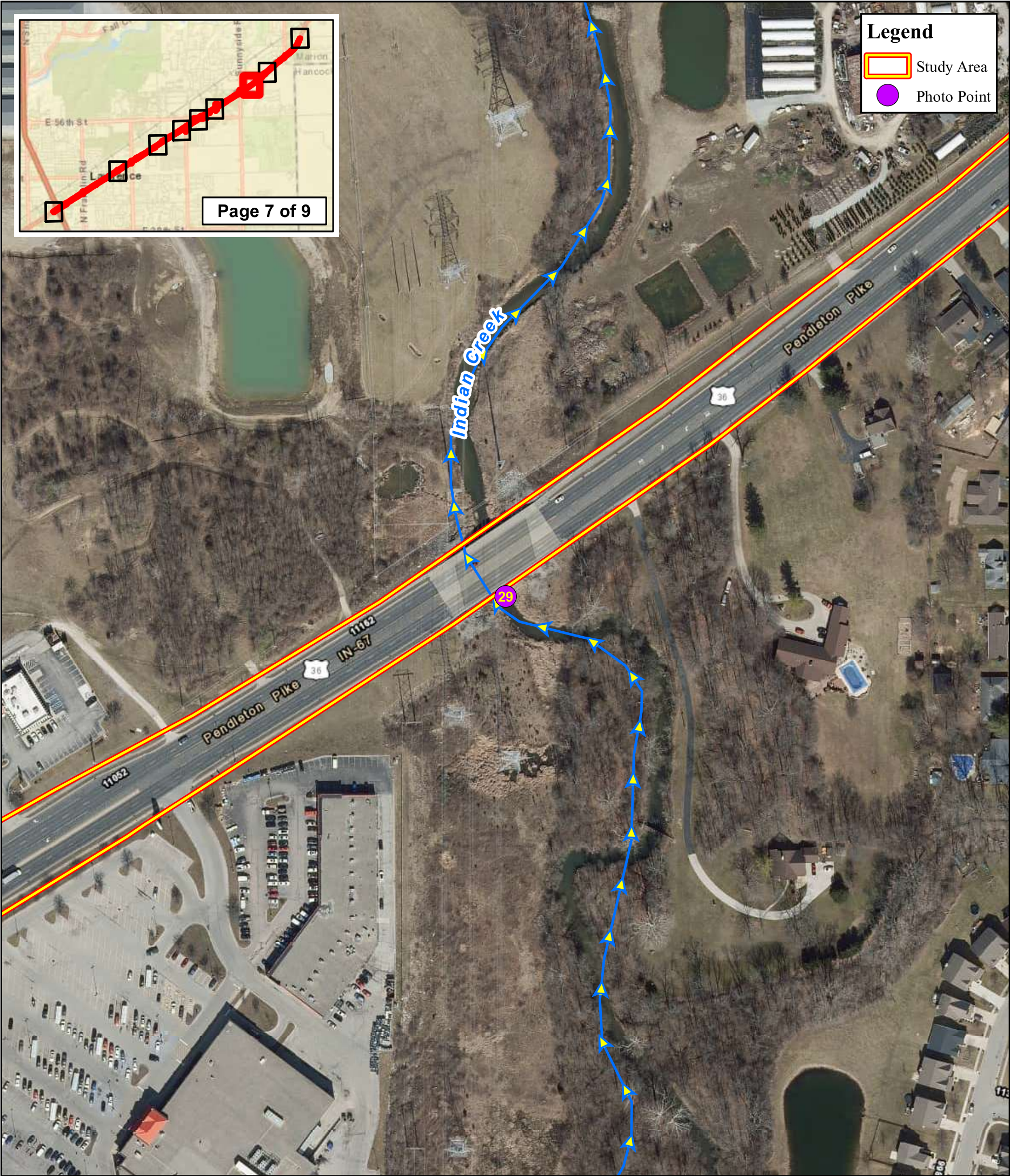
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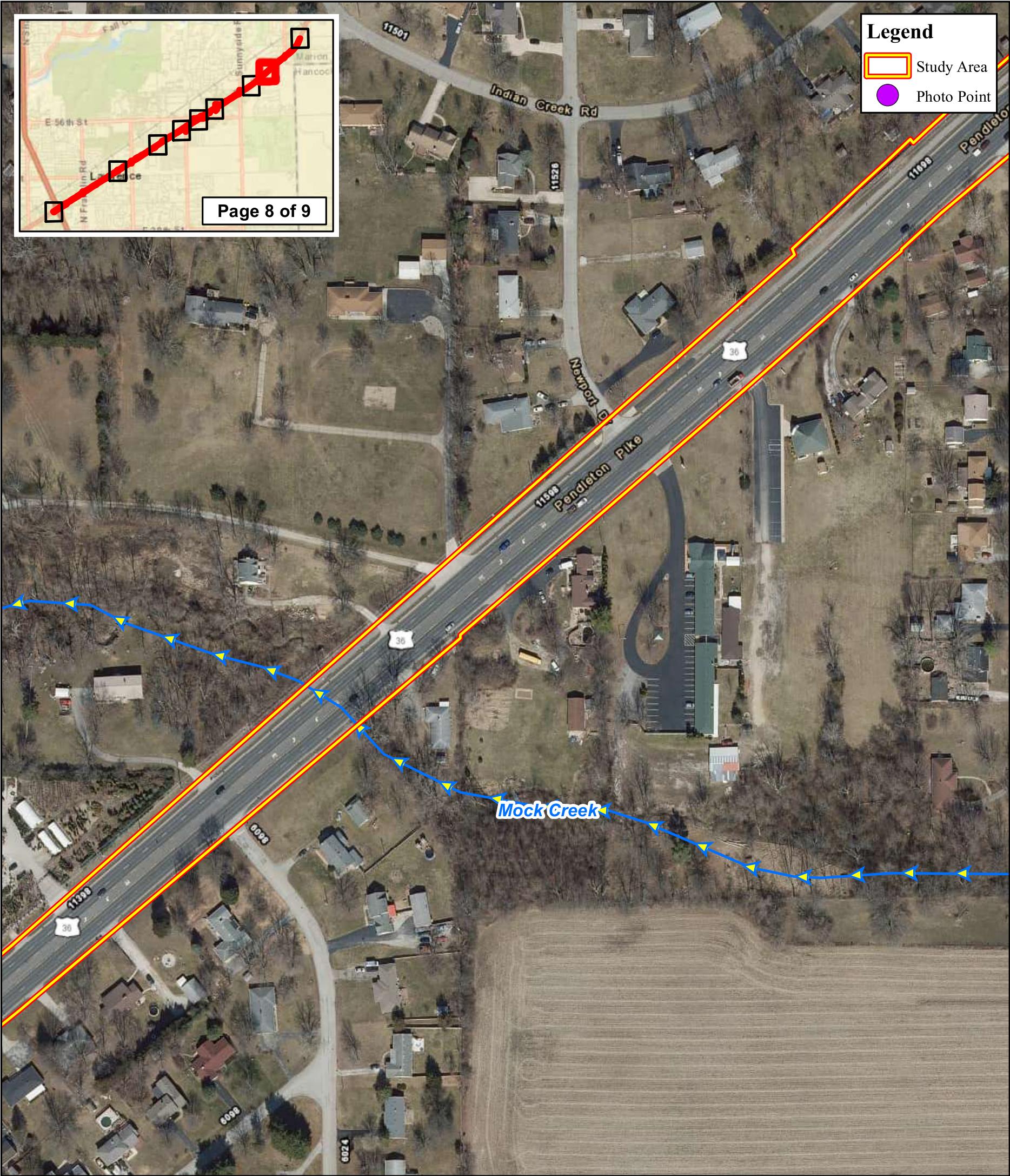
Date Saved: 5/20/2022 • Author: E.Butterfield





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	Scale 1" = 200'	DES No. 1900157	Image Courtesy of the IndianaMap Photo Date: 2017



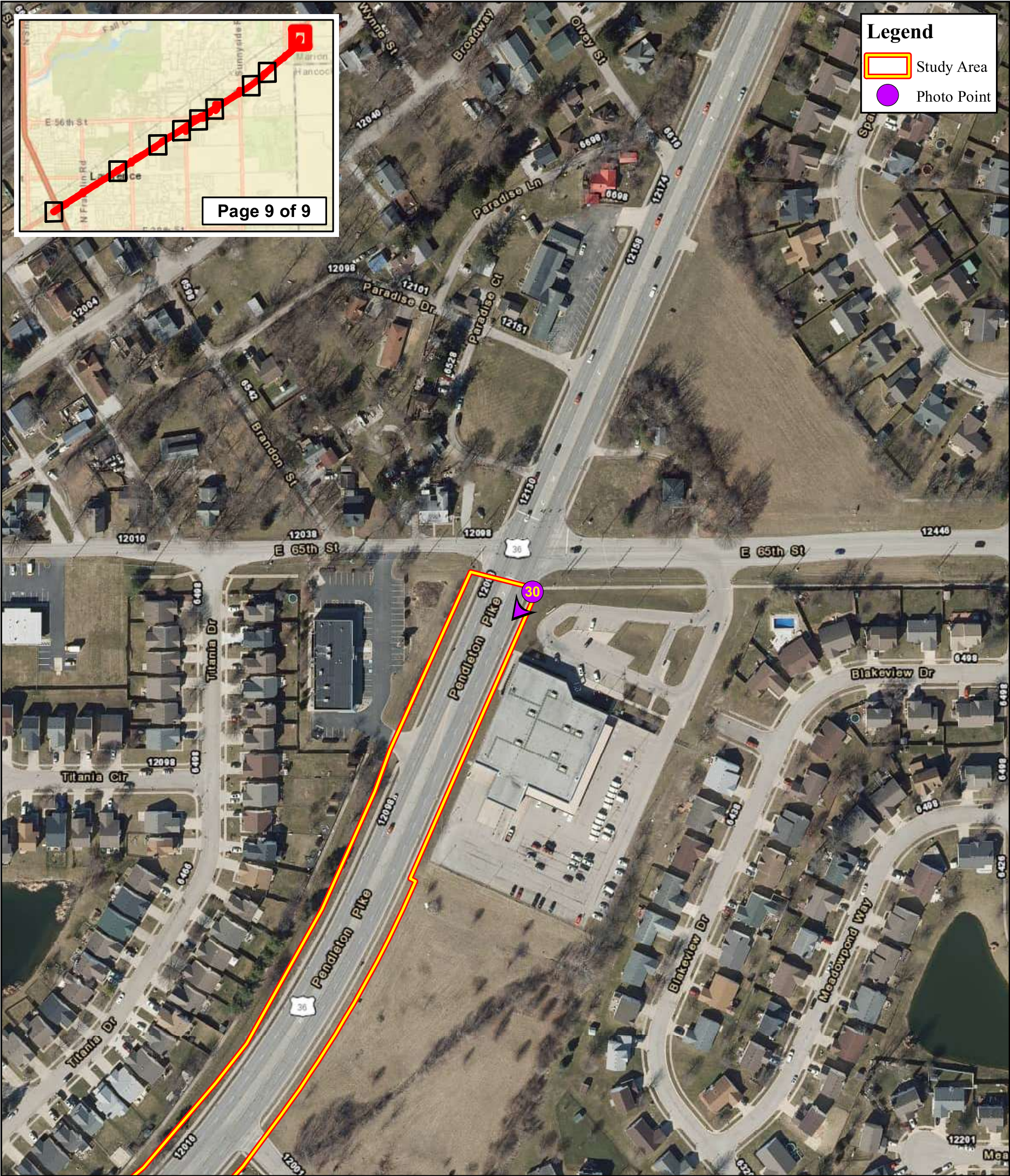
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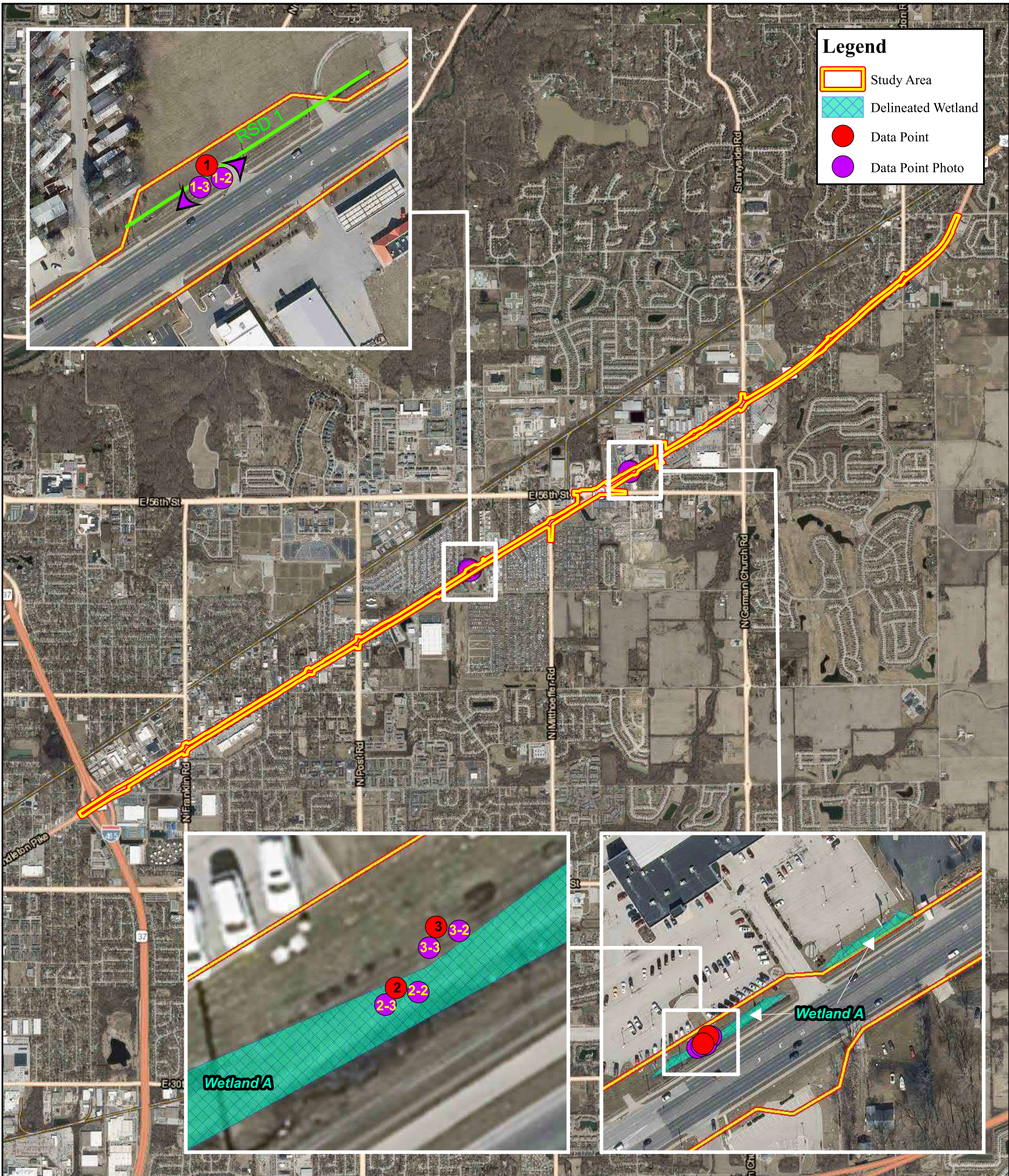
Date Saved: 5/20/2022 • Author: E.Butterfield



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	Scale 1" = 200'	DES No. 1900157	Image Courtesy of the IndianaMap Photo Date: 2017



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Indiana Department of Transportation



Scale 1" = 3500'

DES No.  
1900157

## Data Map

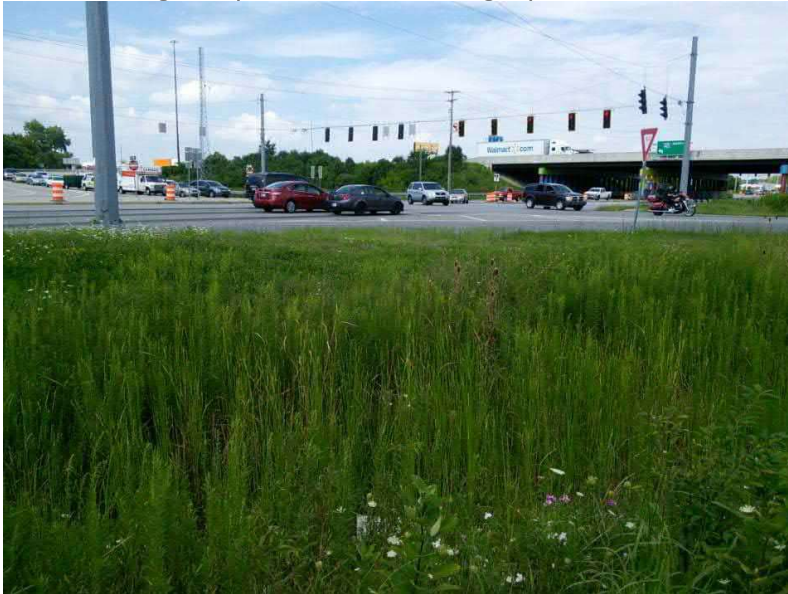
US 36 (Pendleton Pike) Access Control  
Marion County, Indiana

Image Courtesy of the IndianaMap  
Photo Date: 2021



## US 36 Pendleton Pike Access Control

Des. No. 1900157



PP-1 looking northeast at a ditch along the roadside adjacent to the study area, south of the I-465 and US 36 exit. (8-14-2020)



PP-2 Looking north across US 36 towards Geneva Ave. (8-14-2020)



PP-3 Looking southwest at the study area along US 36. (8-14-2020)

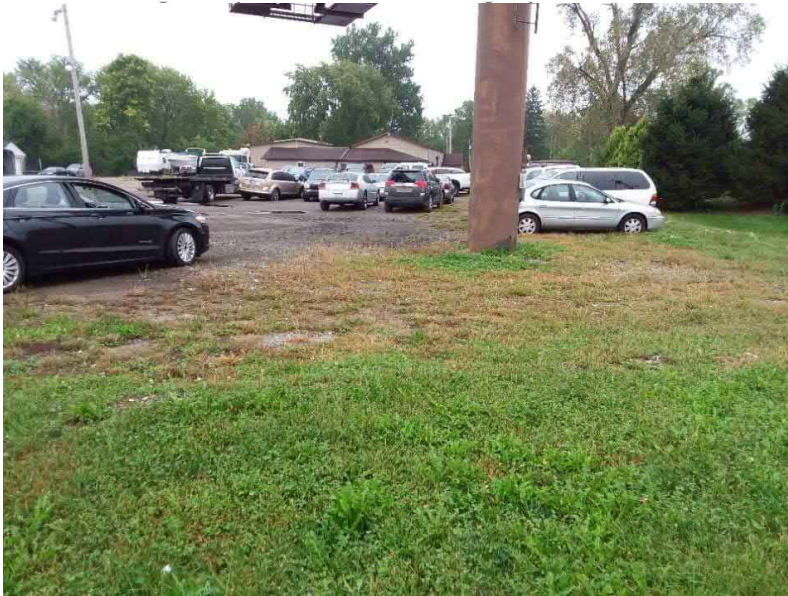


PP-4 Looking northeast at US 36. (8-14-2020)



## US 36 Pendleton Pike Access Control

Des. No. 1900157



PP-5 Looking south at the land use surrounding the project area. (8-14-2020)



PP-6 Looking southwest along US 36. (8-14-2020)



PP-7 Looking north across US 36. (8-14-2020)



PP-8 Looking south at the surrounding land use in the study area (8-14-2020)



## US 36 Pendleton Pike Access Control

Des. No. 1900157



PP-9 looking northeast along US 36 towards 56<sup>th</sup> Street. (8-14-2020)



PP-10 looking southwest along US 36, at the US 36 and Wheel Estates Drive intersection. (8-14-2020)



PP-11 Looking north along Mitthoeffer Road toward US 36. (8-14-2020)



PP-12 Looking south along Mitthoeffer Road. (8-14-2020)





PP-13 Looking southwest along US 36 at the surrounding land use. (8-14-2020)



PP-14 Looking north in the study area. (8-14-2020)



PP-15 Looking southwest along US 36. (8-14-2020)



PP-16 Looking northeast along US 36 and at surrounding land use. (8-14-2020)





PP-17 Looking northeast at project area. (8-14-2020)



PP-18 Looking east at surrounding land use. (8-14-2020)



PP-19 Looking west along E 56th Street toward US 36. (8-14-2020)



PP-20 Looking east along E 56th Street. (8-14-2020)



## US 36 Pendleton Pike Access Control

Des. No. 1900157



PP-21 Looking southwest along US 36. (8-14-2020)



PP-22 Looking northeast along US 36 (2021-10-4)



PP-23 Looking south at the surrounding land use. (8-14-2020)



PP-24 Looking southwest along US 36 and the adjacent roadside ditch and stormwater pond outside of the study area. (8-14-2020)



## US 36 Pendleton Pike Access Control



PP-25 Looking southwest along US 36. (8-14-2020)

Des. No. 1900157



PP-26 Looking north along Thunderbird Road. (8-14-2020)



PP-27 Looking northeast along US 36 and at surrounding land use. (8-14-2020)



PP-28 Looking south at the surrounding land use. (8-14-2020)



## US 36 Pendleton Pike Access Control

Des. No. 1900157



PP-29 looking down at Indian Creek, between the US 36 and Pine Hill Drive intersection and the US 36 and Sunnyside Road intersection. (8-14-2020)



PP-30 looking southwest along US 36, at the US 36 and 65th Street intersection. (8-14-2020)



Data Point 1- Looking down at soil saturation and high-water table. (10-4-2021)



Data Point 1-2: Looking northeast along US 36 at roadside ditch 1. (10-4-2021)



## US 36 Pendleton Pike Access Control



Date Point 1-3: Looking southwest along US 36 at the roadside ditch.  
(10-4-2021)

Des. No. 1900157



Data Point 2- Looking down, soil saturation, highwater table, and  
presence of surface water. (10-4-2021)



Data Point 2-2: Looking Northeast along US 36 at Wetland A. (10-4-2021)



Data Point 2-3: Looking southwest along US 36 in the wetland.  
(10-4-2021)



## US 36 Pendleton Pike Access Control



Data Point 3- Looking down, no presence of wetland hydrology. (10-4-2021)

Des. No. 1900157



Data Point 3-2: Looking northeast along US 36 at the upland adjacent to Wetland A. (10-4-2021)



Data Point 3-3: Looking southwest along US 36. (10-4-2021)